WORK NO 01 : of Package 02
Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
		Carriageway Improvements								
1	Page No.148 Item No.19.55	KSRRB 300-49: Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications MORTH / Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.01	4th cross Swagath layout		1.00	209.00	2.00		418.00		
	1.02	Road connecting 4th & 5th cross Swagath layout		1.00	10.00	4.00		40.00		
	1.03	5th cross Swagath layout		1.00	216.00	2.50		540.00		
	1.05	4th cross road Venugopal Layout		1.00	71.00	2.50		177.50		
	1.06	5th cross road Venugopal Layout		1.00	90.00	2.00		180.00		
	1.07	Venugopal Layout main road		1.00	320.00	2.00		640.00		
	1.09	2nd cross road Ayyana/Akashavani Layout		1.00	130.00	2.00		260.00		
	1.10	3rd cross road Ayyana/Akashavani Layout		1.00	150.00	2.00		300.00		
							Total	2,555.50	95.40	243,794.70
2	Page No. 146, Item No.19.51	KSRRB 300-45: Scarifying stone metal crust 50mm to 100mm thick with pick axes along with premix carpet / surface dressing and stacking of old serviceable materials by manual means including cost of all labour charges complete as per specifications MORTH / Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.01	4th cross Swagath layout		1.00	209.00	5.50		1,149.50		
	1.02	Road connecting 4th & 5th cross Swagath layout		1.00	30.00	5.50		165.00		
	1.03	5th cross Swagath layout		1.00	216.00	6.00		1,296.00		
	1.05	4th cross road Venugopal Layout		1.00	71.00	6.50		461.50		
	1.06	5th cross road Venugopal Layout		1.00	90.00	6.00		540.00		
	1.07	Venugopal Layout main road		1.00	320.00	6.00		1,920.00		
	1.08	1st cross road Akashavani Layout		1.00	115.00	3.50		402.50		
	1.09	2nd cross road Ayyana/Akashavani Layout		1.00	130.00	6.50		845.00		
	1.10	3rd cross road Ayyana/Akashavani Layout		1.00	150.00	5.20		780.00		
				-			Total	7,559.50	84.80	641,045.60
3	Page No.147 Item No.19.66	KSRRB M300-59.2: Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment I subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment I subgrade including HOM construction, labour etc ... complete as per specifications. MORTH Specification No. 305.3.4								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.01	4th cross Swagath layout		1	209.00	5.50		1,149.50		
	1.02	Road connecting 4th & 5th cross Swagath layout		1	30.00	5.50		165.00		
	1.03	5th cross Swagath layout		1	216.00	6.00		1,296.00		
	1.05	4th cross road Venugopal Layout		1	71.00	6.50		461.50		
	1.06	5th cross road Venugopal Layout		1	90.00	6.00		540.00		
	1.07	Venugopal Layout main road		1	320.00	6.00		1,920.00		
	1.08	1st cross road Akashavani Layout		1	115.00	1.50		172.50		
	1.09	2nd cross road Ayyana/Akashavani Layout		1	130.00	6.50		845.00		
	1.10	3rd cross road Ayyana/Akashavani Layout		1	150.00	5.20		780.00		
							Total	7,329.50	24.38	178,693.21
4	Page No.143 Item No.19.14	KSRRB M300-14: Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	1.01	4th cross Swagath layout		1	209.00	5.50	0.23	258.64		
	1.02	Road connecting 4th & 5th cross Swagath layout		1	30.00	5.50	0.23	37.13		
	1.03	5th cross Swagath layout		1	216.00	6.00	0.23	291.60		
	1.05	4th cross road Venugopal Layout		1	71.00	6.50	0.23	103.84		
	1.06	5th cross road Venugopal Layout		1	90.00	6.00	0.23	121.50		
	1.07	Venugopal Layout main road		1	320.00	6.00	0.23	432.00		
	1.08	1st cross road Akashavani Layout		1	115.00	1.50	0.23	38.81		
	1.09	2nd cross road Ayyana/Akashavani Layout		1	130.00	6.50	0.23	190.13		
	1.10	3rd cross road Ayyana/Akashavani Layout		1	150.00	5.20	0.23	175.50		
							Total	1,649.14	43.46	71,671.52
5	Page No.144 Item No.19.20	KSRRB M300-19: Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300 5 complete as per specifications. MORTH Specification No. 301								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	1.01	4th cross Swagath layout		1		258.64		258.64		
	1.02	Road connecting 4th & 5th cross Swagath layout		1		37.13		37.13		
	1.03	5th cross Swagath layout		1		291.60		291.60		
	1.05	4th cross road Venugopal Layout		1		103.84		103.84		
	1.06	5th cross road Venugopal Layout		1		121.50		121.50		
	1.07	Venugopal Layout main road		1		432.00		432.00		
	1.08	1st cross road Akashavani Layout		1		38.81		38.81		
	1.09	2nd cross road Ayyana/Akashavani Layout		1		190.13		190.13		
	1.10	3rd cross road Ayyana/Akashavani Layout		1		175.50		175.50		
							Total	1,649.14	34.98	57,686.83

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
6	Page No.153, Item No.20.6	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	1.01	4th cross Swagath layout		1	209.00	5.50	0.15	172.43		
	1.02	Road connecting 4th & 5th cross Swagath layout		1	30.00	5.50	0.15	24.75		
	1.03	5th cross Swagath layout		1	216.00	6.00	0.15	194.40		
	1.05	4th cross road Venugopal Layout		1	71.00	6.50	0.15	69.23		
	1.06	5th cross road Venugopal Layout		1	90.00	6.00	0.15	81.00		
	1.07	Venugopal Layout main road		1	320.00	6.00	0.15	288.00		
	1.08	1st cross road Akashavani Layout		1	115.00	1.50	0.15	25.88		
	1.09	2nd cross road Ayyana/Akashavani Layout		1	130.00	6.50	0.15	126.75		
	1.10	3rd cross road Ayyana/Akashavani Layout		1	150.00	5.20	0.15	117.00		
							Total	1,099.43	1,855.00	2,039,433.38
7	Page No. 155 Item No.20.18	KSRRB MI00-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	1.01	4th cross Swagath layout	100%	1	209.00	5.50	0.23	258.64		
	1.02	Road connecting 4th & 5th cross Swagath layout	100%	1	30.00	5.50	0.23	37.13		
	1.03	5th cross Swagath layout	100%	1	216.00	6.00	0.23	291.60		
	1.05	4th cross road Venugopal Layout	100%	1	71.00	6.50	0.23	103.84		
	1.06	5th cross road Venugopal Layout	100%	1	90.00	6.00	0.23	121.50		
	1.07	Venugopal Layout main road	100%	1	320.00	6.00	0.23	432.00		
	1.08	1st cross road Akashavani Layout	100%	1	115.00	1.50	0.23	38.81		
	1.09	2nd cross road Ayyana/Akashavani Layout	100%	1	130.00	6.50	0.23	190.13		
	1.10	3rd cross road Ayyana/Akashavani Layout	100%	1	150.00	5.20	0.23	175.50		
		For Bell mouth improvement		8	8.00	4.00	0.08	19.20		
							Total	1,668.34	2,001.28	3,338,810.47
8	Page No.158 Item No.21.2	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.08	1st cross road Akashavani Layout		1	115.00	3.50		402.50		
							Total	402.50	5.30	2,133.25
9	Page No.158 Item No.21.6	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg per sqm using mechanical means complete as per specifications. MORTH Specification No. 502								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.01	4th cross Swagath layout		1	209.00	5.50		1,149.50		
	1.02	Road connecting 4th & 5th cross Swagath layout		1	30.00	5.50		165.00		
	1.03	5th cross Swagath layout		1	216.00	6.00		1,296.00		
	1.05	4th cross road Venugopal Layout		1	71.00	6.50		461.50		
	1.06	5th cross road Venugopal Layout		1	90.00	6.00		540.00		
	1.07	Venugopal Layout main road		1	320.00	6.00		1,920.00		
	1.08	1st cross road Akashavani Layout		1	115.00	1.50		172.50		
	1.09	2nd cross road Ayyana/Akashavani Layout		1	130.00	6.50		845.00		
	1.10	3rd cross road Ayyana/Akashavani Layout		1	150.00	5.20		780.00		
		For Bell mouth improvement		8	8.00	4.00		256.00		
							Total	7,585.50	33.92	257,300.16
10	Page No.158 Item No.21.7	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.01	4th cross Swagath layout		2	209.00	5.50		2,299.00		
	1.02	Road connecting 4th & 5th cross Swagath layout		2	30.00	5.50		330.00		
	1.03	5th cross Swagath layout		2	216.00	6.00		2,592.00		
	1.05	4th cross road Venugopal Layout		2	71.00	6.50		923.00		
	1.06	5th cross road Venugopal Layout		2	90.00	6.00		1,080.00		
	1.07	Venugopal Layout main road		2	320.00	6.00		3,840.00		
	1.08	1st cross road Akashavani Layout		1	115.00	5.00		575.00		
	1.09	2nd cross road Ayyana/Akashavani Layout		2	130.00	6.50		1,690.00		
	1.10	3rd cross road Ayyana/Akashavani Layout		2	150.00	5.20		1,560.00		
		For Bell mouth improvement		8	8.00	4.00		256.00		
							Total	15,145.00	12.72	192,644.40

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
11	Page No.160. Item No.21.17.2	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	1.01	4th cross Swagath layout		1	209.00	5.50	0.05	57.48		
	1.02	Road connecting 4th & 5th cross Swagath layout		1	30.00	5.50	0.05	8.25		
	1.03	5th cross Swagath layout		1	216.00	6.00	0.05	64.80		
	1.05	4th cross road Venugopal Layout		1	71.00	6.50	0.05	23.08		
	1.06	5th cross road Venugopal Layout		1	90.00	6.00	0.05	27.00		
	1.07	Venugopal Layout main road		1	320.00	6.00	0.05	96.00		
	1.08	1st cross road Akashavani Layout		1	115.00	1.50	0.05	8.63		
	1.09	2nd cross road Ayyana/Akashavani Layout		1	130.00	6.50	0.05	42.25		
	1.10	3rd cross road Ayyana/Akashavani Layout		1	150.00	5.20	0.05	39.00		
		For Bell mouth improvement		8	8.00	4.00	0.05	12.80		
							Total	379.28	7,620.34	2,890,204.45
12	Page No. 171. Item No.21.78.12	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% ofVG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	1.01	4th cross Swagath layout		1	209.00	5.50	0.03	34.49		
	1.02	Road connecting 4th & 5th cross Swagath layout		1	30.00	5.50	0.03	4.95		
	1.03	5th cross Swagath layout		1	216.00	6.00	0.03	38.88		
	1.05	4th cross road Venugopal Layout		1	71.00	6.50	0.03	13.85		
	1.06	5th cross road Venugopal Layout		1	90.00	6.00	0.03	16.20		
	1.07	Venugopal Layout main road		1	320.00	6.00	0.04	76.80		
	1.08	1st cross road Akashavani Layout		1	115.00	5.00	0.03	17.25		
	1.09	2nd cross road Ayyana/Akashavani Layout		1	130.00	6.50	0.03	25.35		
	1.10	3rd cross road Ayyana/Akashavani Layout		1	150.00	5.20	0.03	23.40		
		For Bell mouth improvement		8	8.00	4.00	0.03	7.68		
							Total	258.84	8,699.42	2,251,757.87
13	Page No.187. Item No.24.41	KSRRB M800 Road markers/Road stud KSRRB M800-35. Supply and Installion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 - DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks. (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer with 2 years warranty for the reflectivity from the original manufacturer is mandatory along with necessary test certification from the certified laboratory. Third party test certificates from a reputed test laboratory shall be submitted with Seal and Signature in								
		PWP &IWTD, South Zone, SR:2018-19	Nos							
	1.01	4th cross Swagath layout		2	5.50			11.00		
	1.02	Road connecting 4th & 5th cross Swagath layout		2	5.50			11.00		
	1.03	5th cross Swagath layout		2	6.00			12.00		
	1.05	4th cross road Venugopal Layout		2	6.50			13.00		
	1.06	5th cross road Venugopal Layout		2	6.00			12.00		
	1.07	Venugopal Layout main road		2	6.00			12.00		
	1.08	1st cross road Akashavani Layout		2	5.00			10.00		
	1.09	2nd cross road Ayyana/Akashavani Layout		2	6.50			13.00		
	1.10	3rd cross road Ayyana/Akashavani Layout		2	5.20			11.00		
							Total	105.00	357.22	37,508.10
14	Page No.182. Item No.24.15	KSRRB M800-13. Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area. thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
		Centre Line								
	1.03	5th cross Swagath layout		1	216.00	0.10		7.20		
	1.05	4th cross road Venugopal Layout		1	71.00	0.10		2.37		
	1.06	5th cross road Venugopal Layout		1	90.00	0.10		3.00		
	1.07	Venugopal Layout main road		1	320.00	0.10		10.67		
	1.09	2nd cross road Ayyana/Akashavani Layout		1	130.00	0.10		4.33		
		Edge Line								

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yelahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
	1.01	4th cross Swagath layout		2	209.00	0.15		62.70		
	1.02	Road connecting 4th & 5th cross Swagath layout		2	30.00	0.15		9.00		
	1.03	5th cross Swagath layout		2	216.00	0.15		64.80		
	1.04	4th cross road Venugopal Layout		2	71.00	0.15		21.30		
	1.05	5th cross road Venugopal Layout		2	90.00	0.15		27.00		
	1.06	Venugopal Layout main road		2	320.00	0.15		96.00		
	1.07	1st cross road Akashavani Layout		2	115.00	0.15		34.50		
	1.08	2nd cross road Ayyana/Akashavani Layout		2	130.00	0.15		39.00		
	1.09	3rd cross road Ayyana/Akashavani Layout		2	150.00	0.15		45.00		
	1.10						Total	426.87	454.74	194,113.35
15	Page No.190 Item No.24.59	Supply and fixing of Retro Reflective Single Arrow Road Name Signboard of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956- 09 & as per IRC 67-2012 forfull-back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete, as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for thereto reflective sheeting offered shall be submitted by the									
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.01	4th cross Swagath layout		1	1.60	0.90		1.44		
	1.02	Road connecting 4th & 5th cross Swagath layout		1	1.60	0.90		1.44		
	1.03	5th cross Swagath layout		1	1.60	0.90		1.44		
	1.04	3rd cross road Venugopal Layout		1	1.60	0.90		1.44		
	1.05	4th cross road Venugopal Layout		1	1.60	0.90		1.44		
	1.06	5th cross road Venugopal Layout		1	1.60	0.90		1.44		
	1.07	Venugopal Layout main road		1	1.60	0.90		1.44		
	1.08	1st cross road Akashavani Layout		1	1.60	0.90		1.44		
	1.09	2nd cross road Ayyana/Akashavani Layout		1	1.60	0.90		1.44		
	1.10	3rd cross road Ayyana/Akashavani Layout		1	1.60	0.90		1.44		
							Total	14.40	14,094.82	202,965.41
16	Item No.23 KUWS&DB 2018-19	Supply and fixing of medium duty SFRC Frame and Cover confirming to IS 12592 (part-II) 1988 and IS 12592 (part-II)-1991 with latest amendment including cutting slabs to the required size for the opening and fixing the cover in CC 1:2:4 and CM 1:3 plastering 20mm thick to all exposed faces, curing for 10 days with all lead and lift etc. complete. -Do heavy duty								
		KUWS&DB SR 2018-19	No.							
	1.01	4th cross Swagath layout		3				3.00		
	1.03	5th cross Swagath layout		6				6.00		
	1.04	3rd cross road Venugopal Layout		4				4.00		
	1.05	4th cross road Venugopal Layout		2				2.00		
	1.06	5th cross road Venugopal Layout		3				3.00		
	1.08	1st cross road Akashavani Layout		3				3.00		
	1.09	2nd cross road Ayyana/Akashavani Layout		2				2.00		
	1.10	3rd cross road Ayyana/Akashavani Layout		2				2.00		
							Total	25.00	2,203.74	55,093.50
17	Page No.270 Item No.37.59.1	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200 including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Manhole Raising								
	1.01	4th cross Swagath layout		3	2.83	0.15	0.10	0.13		
	1.03	5th cross Swagath layout		6	2.83	0.15	0.10	0.25		
	1.04	3rd cross road Venugopal Layout		4	2.83	0.15	0.10	0.17		
	1.05	4th cross road Venugopal Layout		2	2.83	0.15	0.10	0.08		
	1.06	5th cross road Venugopal Layout		3	2.83	0.15	0.10	0.13		
	1.08	1st cross road Akashavani Layout		3	2.83	0.15	0.10	0.13		
	1.09	2nd cross road Ayyana/Akashavani Layout		2	2.83	0.15	0.10	0.08		
	1.10	3rd cross road Ayyana/Akashavani Layout		2	2.83	0.15	0.10	0.08		
							Total	1.06	7,273.72	7,708.32
18	Page No.136 Item No.17.1	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 :Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	cum							
		For Road Excavation						1,649.14		
		For Dismantling of BT, Granular layers						10,115.00		
		Dismantling of Masonry						14.20		
		Dismantling of Kerbs						12.64		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yelahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
							Total	11,790.98	60.42	712,410.86
19	Page No.136 Item No.17.4	KSRRB M100-4.1: Cost of Haulage Excluding loading and Unloading MORTH -100/ Chapter 1 Case-1: Surface Road								
		PWP &IWTD, South Zone, SR:2018-19	Lkm							
		For Road Excavation						25,330.75		
		For Dismantling of BT, Granular layers						157,794.00		
		Dismantling of Masonry,						221.52		
		Dismantling of Kerbs						197.18		
							Total	183,543.46	2.12	389,112.13
		Footpath Improvements								
20	Page No.254 Item No.34.1	KSRRB M2900-1: Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Below Kerb Stone								
	1.07	Venugopal Layout main road	20%	2.00	320.00	0.20	0.10	2.56		
	1.10	3rd cross road Ayyana/Akashavani Layout	10%	2.00	150.00	0.20	0.10	0.60		
							Total	3.16	4,479.56	14,155.41
21	Page No.27, Item No.5.30	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete								
		PWP &IWTD, South Zone, SR:2018-19	No							
	1.07	Venugopal Layout main road	20%	2.00	320.00			284.44		
	1.10	3rd cross road Ayyana/Akashavani Layout	10%	2.00	150.00			66.67		
							Total	351.11	432.48	151,848.53
22	Page No.270, Item No.37.57	Removing and resetting of kerb stones								
		PWP &IWTD, South Zone, SR:2018-19	m							
	1.07	Venugopal Layout main road	40%	2	320.00			256.00		
	1.10	3rd cross road Ayyana/Akashavani Layout	40%	2	150.00			120.00		
							Total	376.00	104.94	39,457.44
23	Page No.180, Item No.24.1	KSRRB 800-1: Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.07	Venugopal Layout main road	60%	2	320.00	0.27		101.76		
	1.10	3rd cross road Ayyana/Akashavani Layout	50%	2	150.00	0.27		39.75		
							Total	141.51	84.80	12,000.05
24	Page No.147, Item No.19.66	KSRRB M300-59.2: Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment / subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment / subgrade including HOM construction, labour etc., complete as per specifications. MORTH Specification No. 305.3.4								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.07	Venugopal Layout main road		2	320.00	1.00		640.00		
	1.08	1st cross road Akashavani Layout		2	115.00	1.50		345.00		
	1.09	2nd cross road Ayyana/Akashavani Layout		2	130.00	1.20		312.00		
							Total	1,297.00	24.38	31,620.86
25	Page No.270, Item No.37.56	Dismantling / Removing and resetting of footpath slab, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications, as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.01	4th cross Swagath layout	60%	2.00	209.00	1.10		275.88		
	1.02	Road connecting 4th & 5th cross Swagath layout	40%	2.00	30.00	1.10		26.40		
	1.03	5th cross Swagath layout	60%	1.00	216.00	1.10		142.56		
	1.05	4th cross road Venugopal Layout	65%	2.00	71.00	1.10		101.53		
	1.06	5th cross road Venugopal Layout	20%	2.00	90.00	1.10		39.60		
	1.07	Venugopal Layout main road	70%	2.00	320.00	1.10		492.80		
	1.08	1st cross road Akashavani Layout	70%	2.00	115.00	1.10		177.10		
	1.09	2nd cross road Ayyana/Akashavani Layout	50%	2.00	130.00	1.10		143.00		
	1.10	3rd cross road Ayyana/Akashavani Layout	70%	2.00	150.00	1.10		231.00		
							Total	1,629.87	208.82	340,349.45
		Drain Improvements								

Detailed Quantity Estimate for Road and allied Works

BBMP Division: Yelahanka Division

SL No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
26	Page No.143 Item No.19.1	KSRRB 300-1: Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications MORTH I Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Desilting								
	1.01	4th cross Swagath layout		2.00	209.00	0.45	0.15	28.22		
	1.02	Road connecting 4th & 5th cross Swagath layout		2.00	30.00	0.45	0.15	4.05		
	1.03	5th cross Swagath layout		1.00	216.00	0.45	0.15	14.58		
	1.05	4th cross road Venugopal Layout		2.00	71.00	0.45	0.15	9.59		
	1.06	5th cross road Venugopal Layout		2.00	90.00	0.45	0.15	12.15		
	1.07	Venugopal Layout main road		2.00	320.00	0.45	0.15	43.20		
	1.08	1st cross road Akashavani Layout		2.00	115.00	0.45	0.15	15.53		
	1.09	2nd cross road Ayyana/Akashavani Layout		2.00	130.00	0.45	0.15	17.55		
	1.10	3rd cross road Ayyana/Akashavani Layout		2.00	150.00	0.45	0.15	20.25		
		For Cross culvert								
	1.02	Road connecting 4th & 5th cross Swagath layout		1	6.00	1.50	1.00	9.00		
	1.03	5th cross Swagath layout		1	6.50	1.50	1.00	9.75		
	1.05	4th cross road Venugopal Layout		1	7.00	1.50	1.00	10.50		
	1.06	5th cross road Venugopal Layout		1	6.50	1.50	1.00	9.75		
	1.08	1st cross road Akashavani Layout		1	5.50	1.50	1.00	8.25		
	1.09	2nd cross road Ayyana/Akashavani Layout		1	7.00	1.50	1.00	10.50		
		50% reduction for Culvert opening						(28.88)		
							Total	**193.98**	**137.80**	**26,730.44**
27	Page No.254 Item No.34.1	KSRRB M2900-1: Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 406								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Cross culvert								
	1.02	Road connecting 4th & 5th cross Swagath layout		1.00	6.00	1.50	0.10	0.90		
	1.03	5th cross Swagath layout		1.00	6.50	1.50	0.10	0.98		
	1.05	4th cross road Venugopal Layout		1.00	7.00	1.50	0.10	1.05		
	1.06	5th cross road Venugopal Layout		1.00	6.50	1.50	0.10	0.98		
	1.08	1st cross road Akashavani Layout		1.00	5.50	1.50	0.10	0.83		
	1.09	2nd cross road Ayyana/Akashavani Layout		1.00	7.00	1.50	0.10	1.05		
							Total	**5.78**	**4,479.56**	**25,869.46**
28	Page No.229 Item No.28.8.2	KSRRB M2200-6: Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200								
		PWP &IWTD, South Zone, SR:2018-19	Tonns							
		For Cross culvert								
	1.02	Road connecting 4th & 5th cross Swagath layout			0.90	@90 Kg/Cum Concrete		0.08		
	1.03	5th cross Swagath layout			0.98	@90 Kg/Cum Concrete		0.09		
	1.05	4th cross road Venugopal Layout			1.05	@90 Kg/Cum Concrete		0.09		
	1.06	5th cross road Venugopal Layout			0.98	@90 Kg/Cum Concrete		0.09		
	1.08	1st cross road Akashavani Layout			0.83	@90 Kg/Cum Concrete		0.07		
	1.09	2nd cross road Ayyana/Akashavani Layout			1.05	@90 Kg/Cum Concrete		0.09		
							Total	**0.52**	**72,326.98**	**37,591.95**
29	Page No.270 Item No.37.59.2	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Cross culvert								
		Culvert Bottom slab								
	1.02	Road connecting 4th & 5th cross Swagath layout		1	6.00	1.50	0.20	1.80		
	1.03	5th cross Swagath layout		1	6.50	1.50	0.20	1.95		
	1.05	4th cross road Venugopal Layout		1	7.00	1.50	0.20	2.10		
	1.06	5th cross road Venugopal Layout		1	6.50	1.50	0.20	1.95		
	1.08	1st cross road Akashavani Layout		1	5.50	1.50	0.20	1.65		
	1.09	2nd cross road Ayyana/Akashavani Layout		1	7.00	1.50	0.20	2.10		
		Culvert side walls								
	1.02	Road connecting 4th & 5th cross Swagath layout		2	6.00	0.20	0.90	2.16		
	1.03	5th cross Swagath layout		2	6.50	0.20	0.90	2.34		
	1.05	4th cross road Venugopal Layout		2	7.00	0.20	0.90	2.52		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
	1.06	5th cross road Venugopal Layout		2	6.50	0.20	0.90	2.34		
	1.08	1st cross road Akashavani Layout		2	5.50	0.20	0.90	1.98		
	1.09	2nd cross road Ayyana/Akashavani Layout		2	7.00	0.20	0.90	2.52		
							Total	25.41	7,070.20	179,653.78
30	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 100mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR 2018-19	Sqm							
	1.01	4th cross Swagath layout	30%	2	209.00	1.10		137.94		
	1.02	Road connecting 4th & 5th cross Swagath layout	50%	2	30.00	1.10		33.00		
	1.03	5th cross Swagath layout	30%	1	216.00	1.10		71.28		
	1.05	4th cross road Venugopal Layout	25%	2	71.00	1.10		39.05		
	1.06	5th cross road Venugopal Layout	70%	2	90.00	1.10		138.60		
	1.07	Venugopal Layout main road	20%	2	320.00	1.10		140.80		
	1.08	1st cross road Akashavani Layout	20%	2	115.00	1.10		50.60		
	1.09	2nd cross road Ayyana/Akashavani Layout	40%	2	130.00	1.10		114.40		
	1.10	3rd cross road Ayyana/Akashavani Layout	20%	2	150.00	1.10		66.00		
							Total	791.67	2,337.00	1,850,132.79
31	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR 2018-19	m							
	1.02	Road connecting 4th & 5th cross Swagath layout		1	6.00	1.50		9.00		
	1.03	5th cross Swagath layout		1	6.50	1.50		9.75		
	1.05	4th cross road Venugopal Layout		1	7.00	1.50		10.50		
	1.06	5th cross road Venugopal Layout		1	6.50	1.50		9.75		
	1.08	1st cross road Akashavani Layout		1	5.50	1.50		8.25		
	1.09	2nd cross road Ayyana/Akashavani Layout		1	7.00	1.50		10.50		
							Total	57.75	5,418.00	312,889.50
32	Page No.27 Item No.5.33	Removing & Refixing stone slabs of drains and pointing in C. M (1 :3)								
		PWP &IWTD, South Zone, SR 2018-19	Sqm							
	1.01	4th cross Swagath layout	5%	1	209.00	0.90		9.41		
	1.02	Road connecting 4th & 5th cross Swagath layout	5%	1	30.00	0.90		1.35		
	1.03	5th cross Swagath layout	5%	1	216.00	0.90		9.72		
	1.05	4th cross road Venugopal Layout	5%	1	71.00	0.90		3.20		
	1.06	5th cross road Venugopal Layout	5%	1	90.00	0.90		4.05		
	1.07	Venugopal Layout main road	5%	1	320.00	0.90		14.40		
	1.08	1st cross road Akashavani Layout	5%	1	115.00	0.90		5.18		
	1.09	2nd cross road Ayyana/Akashavani Layout	5%	1	130.00	0.90		5.85		
	1.10	3rd cross road Ayyana/Akashavani Layout	5%	1	150.00	0.90		6.75		
							Total	59.90	105.00	6,286.98
		Dismantling and miscellaneous Items								
33	Page No.139 Item No.18.26	KSRR8 M200-15.1: Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications. ii) Dismantling Stone Masonry & Rubble Stone masonry in lime mortar, MORTH Specification No. 202								
		PWP &IWTD, South Zone, SR 2018-19	Cum							
		For Culverts								
	1.02	Road connecting 4th & 5th cross Swagath layout		1.00	5.50	0.40	1.00	2.20		
	1.03	5th cross Swagath layout		1.00	6.00	0.40	1.00	2.40		
	1.05	4th cross road Venugopal Layout		1.00	6.50	0.40	1.00	2.60		
	1.06	5th cross road Venugopal Layout		1.00	6.00	0.40	1.00	2.40		
	1.08	1st cross road Akashavani Layout		1.00	5.00	0.40	1.00	2.00		
	1.09	2nd cross road Ayyana/Akashavani Layout		1.00	6.50	0.40	1.00	2.60		
							Total	14.20	306.34	4,350.03

3.9

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
34	Page No:141 Item No:18.49	KSRRB M200-26. Dismantling Kerb stone by manual means and disposal of dismantled materials with all lifts and complete as per specifications. MORTH Specification No. 202								
		PWP &WTD, South Zone, SR 2018-19	m					128.00		
	1.07	Vanugopal Layout main road	20%	2.00	320.00			30.00		
	1.10	3rd cross road Ayyana/Akashavani Layout	10%	2.00	150.00			158.00	12.72	2,009.76
							Total		Total Construction Cost	16,799,035.94
									GST 12%	2,015,884.31
									Design Report,Proof Checking & PMC Amount	335,980.72
									Tender Premium 5%	839,951.80
									Sub Total	19,990,852.77
									Miscellaneous & Rounding Off	9,147.23
									Grand Total	20,000,000.00

Certificate :-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted is based on the PWD SR Bangalore Circle for year 2018-19
4. The provisions made in the estimate are necessary and essential.

For Infra Support Engineering Consultants Pvt. Ltd. BANGALORE

Assistant Engineer,
Yalahanka Division, BBMP

Assistant Executive Engineer,
Yalahanka Division, BBMP

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Executive Engineer,
Yalahanka Division,
BBMP

WORK NO 02 : of Package 02
Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
		Carriageway Improvements								
1	Page No.145 Item No.19.55	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet I surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications MORTH I Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	2.10	7th cross road AMS Layout		1.00	300.00	1.25		375.00		
	2.01	1st cross road AMS Layout		1.00	243.00	3.00		729.00		
	2.03	6th cross road AMS Layout		1.00	107.00	2.00		214.00		
	2.05	6th "A" cross road AMS Layout		1.00	142.00	2.00		284.00		
	2.12	2nd main road AMS Layout		1.00	260.00	2.00		520.00		
	2.14	3rd main road AMS Layout		1.00	235.00	4.00		940.00		
	2.15	5th cross road AMS Layout		1.00	295.00	2.00		590.00		
							Total	3,852.00	95.40	348,400.80
2	Page No. 146 Item No.19.51	KSRRB 300-45. Scarifying stone metal crust 50mm to 100mm thick with pick axes along with premix carpet / surface dressing and stacking of old serviceable materials by manual means including cost of all labour charges complete as per								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	2.10	7th cross road AMS Layout		1.00	300.00	1.25		375.00		
	2.01	1st cross road AMS Layout		1.00	243.00	7.00		1,701.00		
	2.03	6th cross road AMS Layout		1.00	107.00	4.50		481.50		
	2.05	6th "A" cross road AMS Layout		1.00	142.00	4.00		568.00		
	2.12	2nd main road AMS Layout		1.00	260.00	6.50		1,690.00		
	2.14	3rd main road AMS Layout		1.00	235.00	7.00		1,645.00		
	2.15	5th cross road AMS Layout		1.00	295.00	5.50		1,622.50		
				-			Total	8,083.00	84.80	685,438.40
3	Page No.147 Item No.19.66	KSRRB M300-59.2. Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment I subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to acheive minimum dry density as given in Table 300-2 for embankment I subgrade including HOM construction, labour etc . complete as per specifications. MORTH								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	2.1	7th cross road AMS Layout		1	300.00	1.25		375.00		
	2.01	1st cross road AMS Layout		1	243.00	7.00		1,701.00		
	2.03	6th cross road AMS Layout		1	107.00	4.50		481.50		
	2.05	6th "A" cross road AMS Layout		1	142.00	4.00		568.00		
	2.12	2nd main road AMS Layout		1	260.00	6.50		1,690.00		
	2.14	3rd main road AMS Layout		1	235.00	7.00		1,645.00		
	2.15	5th cross road AMS Layout		1	295.00	5.50		1,622.50		
							Total	8,083.00	24.38	197,063.54
4	Page No.143 Item No.19.14	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No 301								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	2.1	7th cross road AMS Layout		1	300.00	1.25	0.23	84.38		
	2.01	1st cross road AMS Layout		1	243.00	7.00	0.23	382.73		
	2.03	6th cross road AMS Layout		1	107.00	4.50	0.23	108.34		
	2.05	6th "A" cross road AMS Layout		1	142.00	4.00	0.23	127.80		
	2.12	2nd main road AMS Layout		1	260.00	6.50	0.23	380.25		
	2.14	3rd main road AMS Layout		1	235.00	7.00	0.23	370.13		
	2.15	5th cross road AMS Layout		1	295.00	5.50	0.23	365.06		
							Total	1,818.68	43.46	79,039.62
5	Page No.144 Item No.19.20	KSRRB M300-19. Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications. MORTH Specification No. 301								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	2.1	7th cross road AMS Layout		1		84.38		84.38		
	2.01	1st cross road AMS Layout		1		382.73		382.73		
	2.03	6th cross road AMS Layout		1		108.34		108.34		
	2.05	6th "A" cross road AMS Layout		1		127.80		127.80		
	2.12	2nd main road AMS Layout		1		380.25		380.25		
	2.14	3rd main road AMS Layout		1		370.13		370.13		
	2.15	5th cross road AMS Layout		1		365.06		365.06		
							Total	1,818.68	34.98	63,617.25

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
6	Page No.153 Item No.20.6	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.								
		PWP &IWTD, South Zone, SR 2018-19	Cum							
	2.10	7th cross road AMS Layout		1	300.00	1.25	0.15	56.25		
	2.01	1st cross road AMS Layout		1	248.00	7.00	0.15	260.40		
	2.03	6th cross road AMS Layout		1	107.00	4.50	0.15	72.23		
	2.05	6th "A" cross road AMS Layout		1	142.00	4.00	0.15	85.20		
	2.12	2nd main road AMS Layout		1	260.00	6.50	0.15	253.50		
	2.14	3rd main road AMS Layout		1	235.00	7.00	0.15	246.75		
	2.15	5th cross road AMS Layout		1	295.00	5.50	0.15	243.38		
							Total	1,217.70	1,855.00	2,258,833.50
7	Page No. 155 Item No.20.18	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406								
		PWP &IWTD, South Zone, SR 2018-19	Cum							
	2.10	7th cross road AMS Layout	100%	1	300.00	1.25	0.23	84.38		
	2.01	1st cross road AMS Layout	30%	1	248.00	7.00	0.23	117.18		
	2.03	6th cross road AMS Layout	100%	1	107.00	4.50	0.23	108.34		
	2.05	6th "A" cross road AMS Layout	100%	1	142.00	4.00	0.23	127.80		
	2.12	2nd main road AMS Layout	100%	1	260.00	6.50	0.23	380.25		
	2.14	3rd main road AMS Layout	100%	1	235.00	7.00	0.23	370.13		
	2.15	5th cross road AMS Layout	100%	1	295.00	5.50	0.23	365.06		
		For Bell mouth improvement		12	8.00	4.00	0.08	28.80		
							Total	1,581.93	2,001.28	3,165,884.87
8	Page No.158 Item No.21.2	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501								
		PWP &IWTD, South Zone, SR 2018-19	Sqm							
	2.10	7th cross road AMS Layout		1	300.00	7.50		2,250.00		
							Total	2,250.00	5.30	11,925.00
9	Page No.158 Item No.21.6	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg per sqm using mechanical means complete as per specifications. MORTH Specification No. 502								
		PWP &IWTD, South Zone, SR 2018-19	Sqm							
	2.10	7th cross road AMS Layout	100%	1.00	300.00	1.25		375.00		
	2.01	1st cross road AMS Layout	30%	1.00	248.00	7.00		520.80		
	2.03	6th cross road AMS Layout	100%	1.00	107.00	4.50		481.50		
	2.05	6th "A" cross road AMS Layout	100%	1.00	142.00	4.00		568.00		
	2.12	2nd main road AMS Layout	100%	1.00	260.00	6.50		1,690.00		
	2.14	3rd main road AMS Layout	100%	1.00	235.00	7.00		1,645.00		
	2.15	5th cross road AMS Layout	100%	1.00	295.00	5.50		1,622.50		
		For Bell mouth improvement		12	8.00	4.00		384.00		
							Total	7,286.80	33.92	247,168.26
10	Page No.158 Item No.21.7	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5								
		PWP &IWTD, South Zone, SR 2018-19	Sqm							
	2.10	7th cross road AMS Layout		1	300.00	8.50		2,550.00		
	2.01	1st cross road AMS Layout		2	248.00	7.00		3,472.00		
	2.03	6th cross road AMS Layout		2	107.00	4.50		963.00		
	2.05	6th "A" cross road AMS Layout		2	142.00	4.00		1,136.00		
	2.12	2nd main road AMS Layout		2	260.00	6.50		3,380.00		
	2.14	3rd main road AMS Layout		2	235.00	7.00		3,290.00		
	2.15	5th cross road AMS Layout		2	295.00	5.50		3,245.00		
		For Bell mouth improvement		12	8.00	4.00		384.00		
							Total	18,420.00	12.72	234,302.40
11	Page No.160 Item No.21.17.2	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen.								
		PWP &IWTD, South Zone, SR 2018-19	Cum							

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yelahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
	2.10	7th cross road AMS Layout	100%	1	300.00	1.25	0.05	18.75		
	2.01	1st cross road AMS Layout	100%	1	248.00	7.00	0.05	86.80		
	2.03	6th cross road AMS Layout	100%	1	107.00	4.50	0.05	24.08		
	2.05	6th "A" cross road AMS Layout	100%	1	142.00	4.00	0.05	28.40		
	2.12	2nd main road AMS Layout	100%	1	260.00	6.50	0.05	84.50		
	2.14	3rd main road AMS Layout	100%	1	235.00	7.00	0.05	82.25		
	2.15	5th cross road AMS Layout	100%	1	295.00	5.50	0.05	81.13		
		For Bell mouth improvement		12	8.00	4.00	0.05	19.20		
							Total	425.10	7,620.34	3,239,406.53
12	Page No. 171. Item No.21.78.12	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% cVG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	2.10	7th cross road AMS Layout		1	300.00	8.50	0.04	102.00		
	2.01	1st cross road AMS Layout		1	248.00	7.00	0.03	52.08		
	2.03	6th cross road AMS Layout		1	107.00	4.50	0.03	14.45		
	2.05	6th "A" cross road AMS Layout		1	142.00	4.00	0.03	17.04		
	2.12	2nd main road AMS Layout		1	260.00	6.50	0.03	50.70		
	2.14	3rd main road AMS Layout		1	235.00	7.00	0.03	49.35		
	2.15	5th cross road AMS Layout		1	295.00	5.50	0.03	48.68		
	2.18	4th B main road AMS Layout		1	155.00	2.50	0.03	9.28		
		For Bell mouth improvement		12	8.00	4.00	0.04	15.36		
							Total	358.93	8,699.42	3,122,439.32
13	Page No.187. Item No.24.41	KSRRB M800 Road markers/Road stud: KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, wthout nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer with 2 years warranty for the reflectivity from the original manufacturer is mandatory along with necessary test								
		PWP &IWTD, South Zone, SR:2018-19	Nos							
	2.10	7th cross road AMS Layout		2	8.50			17.00		
	2.10 a	7th cross road AMS Layout		2	6.50			13.00		
	2.01	1st cross road AMS Layout		2	7.00			14.00		
	2.03	6th cross road AMS Layout		2	4.50			9.00		
	2.05	6th "A" cross road AMS Layout		2	4.00			8.00		
	2.12	2nd main road AMS Layout		2	6.50			13.00		
	2.14	3rd main road AMS Layout		2	7.00			14.00		
	2.15	5th cross road AMS Layout		2	5.50			11.00		
							Total	99.00	357.22	35,364.78
14	Page No.182. Item No.24.15	KSRRB M800-13. Road Marking with Hot Applied Thermoplastic Compound with Reflectinsing Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
		Centre Line								
	2.10	7th cross road AMS Layout		1	300.00	0.10		10.00		
	2.01	1st cross road AMS Layout		1	248.00	0.10		8.27		
	2.12	2nd main road AMS Layout		1	260.00	0.10		8.67		
	2.14	3rd main road AMS Layout		1	235.00	0.10		7.83		
	2.10	7th cross road AMS Layout		2	300.00	0.15		90.00		
	2.01	1st cross road AMS Layout		2	248.00	0.15		74.40		
	2.03	6th cross road AMS Layout		2	107.00	0.15		32.10		
	2.05	6th "A" cross road AMS Layout		2	142.00	0.15		42.60		
	2.12	2nd main road AMS Layout		2	260.00	0.15		78.00		
	2.14	3rd main road AMS Layout		2	235.00	0.15		70.50		
	2.15	5th cross road AMS Layout		2	295.00	0.15		88.50		
							Total	510.87	454.74	232,311.51

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yelahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
15	Page No.190 Item No.24.59	Supply and fixing of Retro Reflecive Single Arrow Road Name Signboard of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956- 09 & as per IRC 67-2012 forfull back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete. as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for thereto reflective sheeting offered shall be								
		PWP &IWTD, South Zone, SR.2018-19	Sqm							
	2.07	1st A main road AMS Layout		1	1.60	0.90		1.44		
	2.09	Opposite to Regency Public School		1	1.60	0.90		1.44		
	2.16	7th main road AMS Layout		1	1.60	0.90		1.44		
	2.11	5th main road AMS Layout		1	1.60	0.90		1.44		
	2.10	7th cross road AMS Layout		1	1.60	0.90		1.44		
	2.10 a	7th cross road AMS Layout		1	1.60	0.90		1.44		
	2.01	1st cross road AMS Layout		1	1.60	0.90		1.44		
	2.03	6th cross road AMS Layout		1	1.60	0.90		1.44		
	2.05	6th "A" cross road AMS Layout		1	1.60	0.90		1.44		
	2.06	3rd A main road AMS Layout		1	1.60	0.90		1.44		
	2.08	Around Pylon Island		1	1.60	0.90		1.44		
	2.12	2nd main road AMS Layout		1	1.60	0.90		1.44		
	2.14	3rd main road AMS Layout		1	1.60	0.90		1.44		
	2.15	5th cross road AMS Layout		1	1.60	0.90		1.44		
							Total	20.16	14,094.82	284,151.57
16	Item No 23 KUWS&DB 2018-19	Supply and fixing of medium duty SFRC Frame and Cover confirming to IS 12592 (part-I) 1988 and IS 12592 (part-II)-1991 with latest amendment including cutting slabs to the required size for the opening and fixing the cover in CC 1:2:4 and CM 1:3 plastering 20mm thick to all exposed faces, curing for 10 days with all lead and lift etc. complete -								
		KUWS&DB SR 2018-19	No.							
	2.07	1st A main road AMS Layout		2				2.00		
	2.09	Opposite to Regency Public School		1				1.00		
	2.10	7th cross road AMS Layout		1				1.00		
	2.01	1st cross road AMS Layout		6				6.00		
	2.03	6th cross road AMS Layout		2				2.00		
	2.06	3rd A main road AMS Layout		1				1.00		
	2.08	Around Pylon Island		2				2.00		
	2.12	2nd main road AMS Layout		4				4.00		
	2.14	3rd main road AMS Layout		7				7.00		
	2.15	5th cross road AMS Layout		4				4.00		
							Total	30.00	2,203.74	66,112.20
17	Page No.270 Item No.37.59.1	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200 including cost of materials, labour, HOM complete as per								
		PWP &IWTD, South Zone, SR.2018-19	Cum							
		For Manhole Raising								
	2.07	1st A main road AMS Layout		2	2.83	0.15	0.10	0.08		
	2.09	Opposite to Regency Public School		1	2.83	0.15	0.10	0.04		
	2.10	7th cross road AMS Layout		1	2.83	0.15	0.10	0.04		
	2.01	1st cross road AMS Layout		6	2.83	0.15	0.10	0.25		
	2.03	6th cross road AMS Layout		2	2.83	0.15	0.10	0.08		
	2.06	3rd A main road AMS Layout		1	2.83	0.15	0.10	0.04		
	2.08	Around Pylon Island		2	2.83	0.15	0.10	0.08		
	2.12	2nd main road AMS Layout		4	2.83	0.15	0.10	0.17		
	2.14	3rd main road AMS Layout		7	2.83	0.15	0.10	0.30		
	2.15	5th cross road AMS Layout		4	2.83	0.15	0.10	0.17		
							Total	1.27	7,273.72	9,249.99
18	Page No.136 Item No.17.1	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum, KSRRB M100-1 Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications								
		PWP &IWTD, South Zone, SR.2018-19	cum							
		For Road Excavation						1,818.68		
		For Dismantling of BT, Granular layers						11,735.00		
							Total	13,553.68	60.42	818,913.04

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
19	Page No.136 Item No.17.4	KSRRB M100-4.1: Cost of Haulage Excluding loading and Unloading MORTH -100/ Chapter 1 Case-1: Surface Road								
		PWP &IWTD, South Zone, SR:2018-19	Lkm							
		For Road Excavation						27,934.85		
		For Dismantling of BT, Granular layers						183,066.00		
							Total	211,000.85	2.12	447,321.80
		Footpath Improvements								
20	Page No.270 Item No.37.56	Dismantling / Removing and resetting of footpath slab, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications. as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	2.10	7th cross road AMS Layout	60%	2.00	300.00	1.10		396.00		
	2.01	1st cross road AMS Layout	65%	2.00	248.00	1.10		354.64		
	2.03	6th cross road AMS Layout	55%	2.00	107.00	1.20		141.24		
	2.05	6th "A" cross road AMS Layout	70%	2.00	142.00	1.10		218.68		
	2.12	2nd main road AMS Layout	70%	2.00	260.00	1.10		400.40		
	2.14	3rd main road AMS Layout	60%	2.00	235.00	1.10		310.20		
	2.15	5th cross road AMS Layout	55%	2.00	295.00	1.10		356.95		
							Total	2,178.11	208.82	454,832.93
		Drain Improvements								
21	Page No.143 Item No.19.1	KSRRB 300-1: Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Drain Work								
	2.10	7th cross road AMS Layout		2.00	300.00	0.45	0.15	40.50		
	2.01	1st cross road AMS Layout		2.00	248.00	0.45	0.15	33.48		
	2.03	6th cross road AMS Layout		2.00	107.00	0.45	0.15	14.45		
	2.05	6th "A" cross road AMS Layout		2.00	142.00	0.45	0.15	19.17		
	2.12	2nd main road AMS Layout		2.00	260.00	0.45	0.15	35.10		
	2.14	3rd main road AMS Layout		2.00	235.00	0.45	0.15	31.73		
	2.15	5th cross road AMS Layout		2.00	295.00	0.45	0.15	39.83		
							Total	214.25	137.80	29,522.96
22	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 100mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	2.1	7th cross road AMS Layout	10%	2	300.00	1.00		60.00		
	2.01	1st cross road AMS Layout	10%	2	248.00	1.00		49.60		
	2.03	6th cross road AMS Layout	10%	2	107.00	1.00		21.40		
	2.05	6th "A" cross road AMS Layout	10%	2	142.00	1.00		28.40		
	2.12	2nd main road AMS Layout	10%	2	260.00	1.00		52.00		
	2.14	3rd main road AMS Layout	10%	2	235.00	1.00		47.00		
	2.15	5th cross road AMS Layout	10%	2	295.00	1.00		59.00		
		For Chute Drain		2	1.61	0.40		1.29		
							Total	318.69	2,337.00	744,773.85

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
23	Page No.27 Item No.5.33	Removing & Refixing stone slabs of drains and pointing in C.M.(1:3)								
		PWP &IWTD, South Zone, SR.2018-19	Sqm					13.50		
	2.1	7th cross road AMS Layout	5%	1	300.00	0.90		11.16		
	2.01	1st cross road AMS Layout	5%	1	248.00	0.90		4.82		
	2.03	6th cross road AMS Layout	5%	1	107.00	0.90		8.39		
	2.05	6th "A" cross road AMS Layout	5%	1	142.00	0.90		11.70		
	2.12	2nd main road AMS Layout	5%	1	260.00	0.90		10.58		
	2.14	3rd main road AMS Layout	5%	1	235.00	0.90		13.28		
	2.15	5th cross road AMS Layout	5%	1	295.00	0.90				
							Total	71.42	105.00	7,498.58
								Total Construction Cost		16,783,572.70
								GST 12%		2,014,028.72
								Design Report,Proof Checking & PMC Amount		335,671.45
								Tender Premium 5%		839,178.64
								Sub Total		19,972,451.52
								Miscellaneous & Rounding Off		8,000.00
								Grand Total		19,980,451.52

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted is based on the PWD SR Bangalore Circle for year 2018-19
4. The provisions made in the estimate are necessary and essential.

For M/s. Infra Support Engineering Consultants Pvt. Ltd

Assistant Engineer, Yalahanka Division, BBMP

Assistant Executive Engineer, Yalahanka Division, BBMP

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

Executive Engineer, Yalahanka Division, BBMP

WORK NO 03 : of Package 02
Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
		Carriageway Improvements								
1	Page No.146 Item No.19.55	KSRRB 300-49: Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	3.09	3rd main road AMS Extension		1.00	340.00	3.00		1,020.00		
	3.12	Road parallel to Regency School(Gate-1)		1.00	223.00	4.00		892.00		
	3.13	Road opposite to Regency School(Gate-2)		1.00	92.00	2.00		184.00		
	3.15	Road connecting to 2nd main road AMS Extension		1.00	64.00	2.00		128.00		
							Total	**2,224.00**	**95.40**	**212,169.60**
2	Page No. 146, Item No.19.51	KSRRB 300-45: Scarifying stone metal crust 50mm to 100mm thick with pick axes along with premix carpet / surface dressing and stacking of old serviceable materials by manual means including cost of all labour charges complete as per specifications.MORTH / Chapter								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	3.21	8th cross road AMS Extension		1.00	153.00	7.20		1,101.60		
	3.14	1st main road AMS Extension		1.00	65.00	5.00		325.00		
	3.09	3rd main road AMS Extension		1.00	340.00	7.12		2,420.00		
	3.12	Road parallel to Regency School(Gate-1)		1.00	223.00	7.76		1,730.90		
	3.13	Road opposite to Regency School(Gate-2)		1.00	92.00	6.00		552.00		
	3.15	Road connecting to 2nd main road AMS Extension		1.00	64.00	4.00		256.00		
							Total	**6,385.50**	**84.80**	**541,490.40**
3	Page No.147 Item No.19.66	KSRRB M300-59.2: Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment / subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment / subgrade including HOM construction, labour etc .. complete as per specifications. MORTH Specification No. 305.3.4								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	3.09	3rd main road AMS Extension		1	340.00	7.12		2,420.00		
	3.12	Road parallel to Regency School(Gate-1)		1	223.00	7.76		1,730.90		
	3.13	Road opposite to Regency School(Gate-2)		1	92.00	6.00		552.00		
	3.15	Road connecting to 2nd main road AMS Extension		1	64.00	4.00		256.00		
	3.22	4th A main road AMS Extension		1	160.00	1.50		240.00		
	3.17	1st cross road-9th A main road AMS Extension		1	65.00	2.80		182.00		
	3.18	2nd cross road-9th A main road AMS Extension		1	105.00	4.20		441.00		
	3.19	7th A main road AMS Extension		1	45.00	2.60		117.00		
							Total	**5,938.90**	**24.38**	**144,790.38**
4	Page No.143 Item No.19.14	KSRRB M300-14: Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	3.09	3rd main road AMS Extension		1	340.00	7.12	0.23	544.50		
	3.12	Road parallel to Regency School(Gate-1)		1	223.00	7.76	0.23	389.45		
	3.13	Road opposite to Regency School(Gate-2)		1	92.00	6.00	0.23	124.20		
	3.15	Road connecting to 2nd main road AMS Extension		1	64.00	4.00	0.23	57.60		
	3.22	4th A main road AMS Extension		1	160.00	1.50	0.43	102.00		
	3.17	1st cross road-9th A main road AMS Extension		1	65.00	2.80	0.10	18.20		
	3.18	2nd cross road-9th A main road AMS Extension		1	105.00	4.20	0.10	44.10		
	3.19	7th A main road AMS Extension		1	45.00	2.60	0.10	11.70		
							Total	**1,291.75**	**43.46**	**56,139.56**
5	Page No.144 Item No.19.20	KSRRB M300-19: Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications. MORTH Specification No. 301								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	3.09	3rd main road AMS Extension		1		544.50		544.50		
	3.12	Road parallel to Regency School(Gate-1)		1		389.45		389.45		
	3.13	Road opposite to Regency School(Gate-2)		1		124.20		124.20		
	3.15	Road connecting to 2nd main road AMS Extension		1		57.60		57.60		
	3.22	4th A main road AMS Extension		1		102.00		102.00		
	3.17	1st cross road-9th A main road AMS Extension		1		18.20		18.20		
	3.18	2nd cross road-9th A main road AMS Extension		1		44.10		44.10		
	3.19	7th A main road AMS Extension		1		11.70		11.70		
							Total	**1,291.75**	**34.98**	**45,185.58**
6	Page No.153 Item No.20.8	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							

Detailed Quantity Estimate for Road and allied Works

BBMP Division: Yelahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
	3.09	3rd main road AMS Extension		1	340.00	7.12	0.15	363.00		
	3.12	Road parallel to Regency School(Gate-1)		1	223.00	7.76	0.15	259.64		
	3.13	Road opposite to Regency School(Gate-2)		1	92.00	6.00	0.15	82.80		
	3.15	Road connecting to 2nd main road AMS Extension		1	64.00	4.00	0.15	38.40		
	3.22	4th A main road AMS Extension		1	160.00	1.50	0.15	36.00		
							Total	779.84	1,855.00	1,446,593.93
7	Page No. 155. Item No.20.18	KSRRB M400-17: Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.								
		PWP &IWTD, South Zone, SR 2018-19	Cum							
	3.01	3rd A main road AMS Extension	5%	1	215.00	6.14	0.23	14.86		
	3.03	3rd cross road AMS Extension	20%	1	120.00	4.10	0.23	22.14		
	3.04	Opposite to Rukma Nivas AMS Extension	20%	1	90.00	5.50	0.23	22.28		
	3.10	1st cross road AMS Extension	25%	1	107.00	5.70	0.23	34.31		
	3.20	9th cross road AMS Extension	20%	1	175.00	6.90	0.23	54.34		
	3.21	8th cross road AMS Extension	30%	1	153.00	7.20	0.23	74.36		
	3.09	3rd main road AMS Extension	100%	1	340.00	7.12	0.23	544.50		
	3.12	Road parallel to Regency School(Gate-1)	100%	1	223.00	7.76	0.23	389.45		
	3.13	Road opposite to Regency School(Gate-2)	100%	1	92.00	6.00	0.23	124.20		
	3.15	Road connecting to 2nd main road AMS Extension	100%	1	64.00	4.00	0.23	57.60		
	3.22	4th A main road AMS Extension	100%	1	160.00	1.50	0.23	54.00		
		For Bell mouth improvement		9	8.00	4.00	0.08	21.60		
							Total	1,413.63	2,001.28	2,829,061.99
8	Page No.158. Item No.21.2	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501								
		PWP &IWTD, South Zone, SR 2018-19	Sqm							
	3.01	3rd A main road AMS Extension		1	215.00	6.14		1,320.57		
	3.03	3rd cross road AMS Extension		1	120.00	4.10		492.00		
	3.04	Opposite to Rukma Nivas AMS Extension		1	90.00	5.50		495.00		
	3.06	Road connecting Vidyaranyapura main road		1	22.00	9.00		198.00		
	3.10	1st cross road AMS Extension		1	107.00	5.70		609.90		
	3.20	9th cross road AMS Extension		1	175.00	6.90		1,207.50		
	3.21	8th cross road AMS Extension	70%	1	153.00	7.20		771.12		
	3.14	1st main road AMS Extension		1	65.00	5.00		325.00		
	3.22	4th A main road AMS Extension		1	160.00	3.60		576.00		
	3.16	9th A main road AMS Extension		1	38.00	3.90		148.20		
	3.17	1st cross road-9th A main road AMS Extension		1	65.00	2.80		182.00		
	3.18	2nd cross road-9th A main road AMS Extension		1	105.00	4.20		441.00		
	3.19	7th A main road AMS Extension		1	45.00	2.60		117.00		
							Total	6,883.29	5.30	36,481.43
9	Page No.158. Item No.21.6	KSRRB M500-6: Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg per sqm using mechanical means complete as per specifications. MORTH Specification No. 502.								
		PWP &IWTD, South Zone, SR 2018-19	Sqm							
	3.01	3rd A main road AMS Extension	5%	1	215.00	6.14		66.03		
	3.03	3rd cross road AMS Extension	20%	1	120.00	4.10		98.40		
	3.04	Opposite to Rukma Nivas AMS Extension	20%	1	90.00	5.50		99.00		
	3.10	1st cross road AMS Extension	25%	1	107.00	5.70		152.48		
	3.20	9th cross road AMS Extension	20%	1	175.00	2.00		70.00		
	3.21	8th cross road AMS Extension	30%	1	153.00	7.20		330.48		
	3.09	3rd main road AMS Extension	100%	1	340.00	7.12		2,420.00		
	3.12	Road parallel to Regency School(Gate-1)	100%	1	223.00	7.76		1,730.90		
	3.13	Road opposite to Regency School(Gate-2)	100%	1	92.00	6.00		552.00		
	3.15	Road connecting to 2nd main road AMS Extension	100%	1	64.00	4.00		256.00		
	3.22	4th A main road AMS Extension	100%	1	160.00	1.50		240.00		
		For Bell mouth improvement		9	8.00	4.00		288.00		
							Total	6,303.28	33.92	213,807.37
10	Page No.158. Item No.21.7	KSRRB 500-7: Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5								
		PWP &IWTD, South Zone, SR 2018-19	Sqm							
	3.01	3rd A main road AMS Extension		1	215.00	6.14		1,320.57		
	3.03	3rd cross road AMS Extension		1	120.00	4.10		492.00		
	3.04	Opposite to Rukma Nivas AMS Extension		1	90.00	5.50		495.00		
	3.06	Road connecting Vidyaranyapura main road		1	22.00	9.00		198.00		
	3.10	1st cross road AMS Extension		1	107.00	5.70		609.90		
	3.20	9th cross road AMS Extension		1	175.00	6.90		1,207.50		
	3.21	8th cross road AMS Extension		1	153.00	7.20		1,101.60		
	3.14	1st main road AMS Extension		1	65.00	5.00		325.00		
	3.09	3rd main road AMS Extension		2	340.00	7.12		4,840.00		
				2	223.00	7.76		3,461.80		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
	3.13	Road opposite to Regency School(Gate-2)		2	92.00	6.00		1,104.00		
	3.15	Road connecting to 2nd main road AMS Extension		2	64.00	4.00		512.00		
	3.22	4th A main road AMS Extension		2	160.00	1.50		480.00		
		For Bell mouth improvement		9	8.00	4.00		288.00		
							Total	16,435.37	12.72	209,057.89
11	Page No.160 Item No.21.17.2	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	3.01	3rd A main road AMS Extension	5%	1	215.00	6.14	0.05	3.30		
	3.03	3rd cross road AMS Extension	20%	1	120.00	4.10	0.05	4.92		
	3.04	Opposite to Rukma Nivas AMS Extension	20%	1	90.00	5.50	0.05	4.95		
	3.10	1st cross road AMS Extension	25%	1	107.00	5.70	0.05	7.62		
	3.20	9th cross road AMS Extension	20%	1	175.00	6.90	0.05	12.08		
	3.21	8th cross road AMS Extension	30%	1	153.00	7.20	0.05	16.52		
	3.09	3rd main road AMS Extension	100%	1	340.00	7.12	0.05	121.00		
	3.12	Road parallel to Regency School(Gate-1)	100%	1	223.00	7.76	0.05	86.55		
	3.13	Road opposite to Regency School(Gate-2)	100%	1	92.00	6.00	0.05	27.60		
	3.15	Road connecting to 2nd main road AMS Extension	100%	1	64.00	4.00	0.05	12.80		
	3.22	4th A main road AMS Extension	100%	1	160.00	1.50	0.05	12.00		
		For Bell mouth improvement		9	8.00	4.00	0.05	14.40		
							Total	323.74	7,620.34	2,467,002.56
12	Page No. 171. Item No.21.78.12	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015 do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	3.01	3rd A main road AMS Extension		1	215.00	6.14	0.04	52.82		
	3.03	3rd cross road AMS Extension		1	120.00	4.10	0.04	19.68		
	3.04	Opposite to Rukma Nivas AMS Extension		1	90.00	5.50	0.04	19.80		
	3.06	Road connecting Vidyaramyapura main road		1	22.00	9.00	0.04	7.92		
	3.10	1st cross road AMS Extension		1	107.00	5.70	0.04	24.40		
	3.20	9th cross road AMS Extension		1	175.00	6.90	0.04	48.30		
	3.21	8th cross road AMS Extension		1	153.00	7.20	0.04	44.06		
	3.14	1st main road AMS Extension		1	65.00	5.00	0.04	13.00		
	3.09	3rd main road AMS Extension		1	340.00	7.12	0.04	96.80		
	3.12	Road parallel to Regency School(Gate-1)		1	223.00	7.76	0.04	69.24		
	3.13	Road opposite to Regency School(Gate-2)		1	92.00	6.00	0.03	16.56		
	3.15	Road connecting to 2nd main road AMS Extension		1	64.00	4.00	0.03	7.68		
	3.22	4th A main road AMS Extension		1	160.00	5.10	0.04	32.64		
		For Bell mouth improvement		9	8.00	4.50	0.04	12.96		
							Total	465.86	8,699.42	4,052,700.92
13	Page No.174 Item No.22.1.1	KSRRB M600-1. Construction of dry lean cement concrete mix CC 1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1 Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601 of MORTH V Revision and IS 456 Table-5 22.1.1 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with Slip form paver with electronic sensor.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	3.17	1st cross road-9th A main road AMS Extension		1	65.00	2.80	0.10	18.20		
	3.18	2nd cross road-9th A main road AMS Extension		1	105.00	4.20	0.10	44.10		
	3.19	7th A main road AMS Extension		1	45.00	2.60	0.10	11.70		
							Total	74.00	3,800.10	281,207.40

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
14	Page No.178 Item No.22.6.1	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to 18:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudenal joints, including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per [illegible]								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	3.16	9th A main road AMS Extension		1	38.00	3.90	0.15	22.23		
	3.17	1st cross road-9th A main road AMS Extension		1	85.00	2.80	0.15	27.30		
	3.18	2nd cross road-9th A main road AMS Extension		1	105.00	4.20	0.15	66.15		
	3.19	7th A main road AMS Extension		1	45.00	2.60	0.15	17.55		
							Total	133.23	5,210.96	694,256.20
15	Page No.187 Item No.24.41	KSRRB M800 Road markers/Road stud: KSRRB M800-35: Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 18000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 - DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer with 2 years warranty for the reflectivity from the original manufacturer is mandatory along with necessary test certification from the certified laboratory. Third party test certificates from a reputed test laboratory shall be submitted with Seal and Signature in Originals								
		PWP &IWTD, South Zone, SR:2018-19	Nos							
	3.01	3rd A main road AMS Extension		2	6.14			13.00		
	3.03	3rd cross road AMS Extension		2	4.10			9.00		
	3.04	Opposite to Rukma Nivas AMS Extension		2	5.50			11.00		
	3.06	Road connecting Vidyaranyapura main road		2	9.00			18.00		
	3.10	1st cross road AMS Extension		2	5.70			12.00		
	3.20	9th cross road AMS Extension		2	6.90			14.00		
	3.21	8th cross road AMS Extension		2	7.20			15.00		
	3.14	1st main road AMS Extension		2	5.00			10.00		
	3.09	3rd main road AMS Extension		2	7.12			15.00		
	3.12	Road parallel to Regency School(Gate-1)		2	7.76			16.00		
	3.13	Road opposite to Regency School(Gate-2)		2	6.00			12.00		
	3.15	Road connecting to 2nd main road AMS Extension		2	4.00			8.00		
	3.22	4th A main road AMS Extension		2	5.10			11.00		
	3.16	9th A main road AMS Extension		2	3.90			8.00		
	3.17	1st cross road-9th A main road AMS Extension		2	2.80			6.00		
	3.18	2nd cross road-9th A main road AMS Extension		2	4.20			9.00		
	3.19	7th A main road AMS Extension		2	2.60			6.00		
							Total	193.00	357.22	68,943.46
16	Page No.182 Item No.24.15	KSRRB M800-13: Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
		Centre Line								
	3.01	3rd A main road AMS Extension		1	215.00	0.10		7.17		
	3.06	Road connecting Vidyaranyapura main road		1	22.00	0.10		0.73		
	3.20	9th cross road AMS Extension		1	175.00	0.10		5.83		
	3.21	8th cross road AMS Extension		1	153.00	0.10		5.10		
	3.09	3rd main road AMS Extension		1	340.00	0.10		11.33		
	3.12	Road parallel to Regency School(Gate-1)		1	223.00	0.10		7.43		
	3.13	Road opposite to Regency School(Gate-2)		1	92.00	0.10		3.07		
		Edge Line								
	3.01	3rd A main road AMS Extension		2	215.00	0.15		64.50		
	3.03	3rd cross road AMS Extension		2	120.00	0.15		36.00		
	3.04	Opposite to Rukma Nivas AMS Extension		2	90.00	0.15		27.00		
	3.06	Road connecting Vidyaranyapura main road		2	22.00	0.15		6.60		
	3.10	1st cross road AMS Extension		2	107.00	0.15		32.10		
	3.20	9th cross road AMS Extension		2	175.00	0.15		52.50		
	3.21	8th cross road AMS Extension		2	153.00	0.15		45.90		
	3.14	1st main road AMS Extension		2	65.00	0.15		19.50		
	3.09	3rd main road AMS Extension		2	340.00	0.15		102.00		

Detailed Quantity Estimate for Road and allied Works

BBMP Division: Yalahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
	3.12	Road parallel to Regency School(Gate-1)		2	223.00	0.15		66.90		
	3.13	Road opposite to Regency School(Gate-2)		2	92.00	0.15		27.60		
	3.15	Road connecting to 2nd main road AMS Extension		2	64.00	0.15		19.20		
	3.22	4th A main road AMS Extension		2	160.00	0.15		48.00		
							Total	588.47	454.74	267,599.33
17	Page No.124 Item No.15.80	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete I masonry I asbestos cement sheet I plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease,dirt and other foreign matter, and sand papering including cost ofmaterials, labour, complete as per specifications								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
		Edge Line								
	3.16	9th A main road AMS Extension		2	38.00	0.15		11.40		
	3.17	1st cross road-9th A main road AMS Extension		2	65.00	0.15		19.50		
	3.18	2nd cross road-9th A main road AMS Extension		2	105.00	0.15		31.50		
	3.19	7th A main road AMS Extension		2	45.00	0.15		13.50		
							Total	75.90	39.22	2,976.80
18	Page No.124 Item No.15.82	KSRB 15-19.2 : Providing and applying spray painting (excluding priming coat) over concrete I masonry I asbestos cement sheet I plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter,and sand papering including cost of materials, labour,complete as								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
		Edge Line								
	3.16	9th A main road AMS Extension		2	38.00	0.15		11.40		
	3.17	1st cross road-9th A main road AMS Extension		2	65.00	0.15		19.50		
	3.18	2nd cross road-9th A main road AMS Extension		2	105.00	0.15		31.50		
	3.19	7th A main road AMS Extension		2	45.00	0.15		13.50		
							Total	75.90	58.30	4,424.97
19	Page No.190 Item No.24.59	Supply and fixing of Retro Reflective Single Arrow Road Name Signboard of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956- 09 & as per IRC 67-2012 fortull back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1:5.3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete, as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for theretro reflective sheeting offered shall be submitted by the contractor for technical qualification in the tender								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	3.01	3rd A main road AMS Extension		1	1.60	0.90		1.44		
	3.03	3rd cross road AMS Extension		1	1.60	0.90		1.44		
	3.04	Opposite to Ruuma Nivas AMS Extension		1	1.60	0.90		1.44		
	3.10	1st cross road AMS Extension		1	1.60	0.90		1.44		
	3.20	9th cross road AMS Extension		1	1.60	0.90		1.44		
	3.21	8th cross road AMS Extension		1	1.60	0.90		1.44		
	3.09	3rd main road AMS Extension		1	1.60	0.90		1.44		
	3.12	Road parallel to Regency School(Gate-1)		1	1.60	0.90		1.44		
	3.13	Road opposite to Regency School(Gate-2)		1	1.60	0.90		1.44		
	3.15	Road connecting to 2nd main road AMS Extension		1	1.60	0.90		1.44		
	3.22	4th A main road AMS Extension		1	1.60	0.90		1.44		
	3.17	1st cross road-9th A main road AMS Extension		1	1.60	0.90		1.44		
	3.18	2nd cross road-9th A main road AMS Extension		1	1.60	0.90		1.44		
							Total	18.72	14,094.82	263,855.03
20	Item No.23 KUWS&DB 2018-19	Supply and fixing of medium duty SFRC Frame and Cover confirming to IS 12592 (part-I) 1988 and IS 12592 (part-II)-1991 with latest amendment including cutting slabs to the required size for the opening and fixing the cover in CC 1:2:4 and CM 1:3 plastering 20mm thick to all exposed faces, curing for 10 days with all lead and lift etc. complete. -Do heavy								
		KUWS&DB SR 2018-19	No.							
	3.02	2nd main road AMS Extension		1				1.00		
	3.07	Vidyaranyapura 1st main road AMS Extension		1				1.00		
	3.09	3rd main road AMS Extension		2				2.00		
	3.18	2nd cross road-9th A main road AMS Extension		3				3.00		
							Total	7.00	2,203.74	15,426.18

Detailed Quantity Estimate for Road and allied Works

BBMP Division: Yalahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
21	Page No.270 Item No.37.59.1	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200, including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Manhole Raising								
	3.02	2nd main road AMS Extension								
	3.07	Vidyaranyapura 1st main road AMS Extension		1	2.83	0.15	0.10	0.04		
	3.09	3rd main road AMS Extension		1	2.83	0.15	0.10	0.04		
	3.18	2nd cross road-9th A main road AMS Extension		2	2.83	0.15	0.10	0.08		
				3	2.83	0.15	0.10	0.13		
							Total	0.30	7,273.72	2,158.33
22	Page No.136 Item No.17.1	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kankar / Moorum. KSRRB M100-1 /Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications								
		PWP &IWTD, South Zone, SR:2018-19	cum							
		For Road Excavation						1,291.75		
		For Dismantling of BT, Granular layers						8,609.50		
		Dismantling of Masonry						8.41		
		Dismantling of Kerbs						8.60		
							Total	9,918.26	60.42	599,261.34
23	Page No.136 Item No.17.4	KSRRB M100-4.1, Cost of Haulage Excluding loading and Unloading MORTH -100/ Chapter 1 Case-1; Surface Road								
		PWP &IWTD, South Zone, SR:2018-19	t.km							
		For Road Excavation						19,841.32		
		For Dismantling of BT, Granular layers						134,308.20		
		Dismantling of Masonry						131.18		
		Dismantling of Kerbs						134.16		
							Total	154,414.85	2.12	327,359.49
		Footpath improvements								
24	Page No.254 Item No.34.1	KSRRB M2900-1, Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Below Kerb Stone								
	3.01	3rd A main road AMS Extension	25%	2.00	215.00	0.20	0.10	2.15		
							Total	2.15	4,479.56	9,631.05
25	Page No.27 Item No.5.30	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.								
		PWP &IWTD, South Zone, SR:2018-19	No							
	3.01	3rd A main road AMS Extension	25%	2.00	215.00			238.89		
							Total	238.89	432.48	103,314.67
26	Page No.270 Item No.37.57	Removing and resetting of kerb stones								
		PWP &IWTD, South Zone, SR:2018-19	m							
	3.01	3rd A main road AMS Extension	55%	2	215.00			236.50		
	3.06	Road connecting Vidyaranyapura main road	50%	2	22.00			22.00		
							Total	258.50	104.94	27,126.99
27	Page No.180 Item No.24.1	KSRRB 800-1, Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	3.01	3rd A main road AMS Extension	60%	2	215.00	0.27		91.16		
	3.06	Road connecting Vidyaranyapura main road	50%	2	22.00	0.27		5.83		
							Total	96.99	84.80	8,224.75
28	Page No.270 Item No.37.56	Dismantling / Removing and resetting of footpath slab, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications, as directed by the Engineer,with all lead and lift etc complete as per specifications complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	3.01	3rd A main road AMS Extension	90%	2.00	215.00	1.10		378.40		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
	3.03	3rd cross road AMS Extension	80%	2.00	120.00	1.10		211.20		
	3.04	Opposite to Rukma Nivas AMS Extension	80%	2.00	90.00	1.10		158.40		
	3.06	Road connecting Vidyaranyapura main road	50%	2.00	22.00	1.10		24.20		
	3.10	1st cross road AMS Extension	80%	2.00	107.00	1.10		141.24		
	3.20	9th cross road AMS Extension	70%	2.00	175.00	1.10		269.50		
	3.21	8th cross road AMS Extension	80%	2.00	153.00	1.10		201.96		
	3.09	3rd main road AMS Extension	60%	2.00	340.00	1.10		448.80		
	3.12	Road parallel to Regency School(Gate-1)	60%	2.00	223.00	1.10		294.36		
	3.13	Road opposite to Regency School(Gate-2)	60%	2.00	92.00	1.10		121.44		
	3.22	4th A main road AMS Extension	75%	2.00	160.00	1.10		246.40		
	3.16	9th A main road AMS Extension	50%	1.00	38.00	1.10		20.90		
	3.17	1st cross road-9th A main road AMS Extension	80%	2.00	65.00	1.10		114.40		
	3.18	2nd cross road-9th A main road AMS Extension	80%	2.00	105.00	1.10		184.80		
	3.19	7th A main road AMS Extension	70%	2.00	45.00	1.10		69.30		
							Total	2,885.30	208.82	602,508.35
		Drain Improvements								
29	Page No.143 Item No.19.1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Drain Work								
	3.01	3rd A main road AMS Extension		2.00	215.00	0.45	0.20	38.70		
	3.03	3rd cross road AMS Extension		2.00	120.00	0.45	0.20	21.60		
	3.04	Opposite to Rukma Nivas AMS Extension		2.00	90.00	0.45	0.20	16.20		
	3.06	Road connecting Vidyaranyapura main road		2.00	22.00	0.45	0.20	3.96		
	3.10	1st cross road AMS Extension		2.00	107.00	0.45	0.20	19.26		
	3.20	9th cross road AMS Extension		2.00	175.00	0.45	0.20	31.50		
	3.21	8th cross road AMS Extension		2.00	153.00	0.45	0.20	27.54		
	3.14	1st main road AMS Extension		2.00	65.00	0.45	0.20	11.70		
	3.09	3rd main road AMS Extension		2.00	340.00	0.45	0.20	61.20		
	3.12	Road parallel to Regency School(Gate-1)		2.00	223.00	0.45	0.20	40.14		
	3.13	Road opposite to Regency School(Gate-2)		2.00	92.00	0.45	0.20	16.56		
	3.15	Road connecting to 2nd main road AMS Extension		2.00	64.00	0.45	0.20	11.52		
	3.22	4th A main road AMS Extension		2.00	160.00	0.45	0.20	28.80		
	3.16	9th A main road AMS Extension		2.00	38.00	0.45	0.20	6.84		
	3.17	1st cross road-9th A main road AMS Extension		2.00	65.00	0.45	0.20	11.70		
	3.18	2nd cross road-9th A main road AMS Extension		2.00	105.00	0.45	0.20	18.90		
	3.19	7th A main road AMS Extension		2.00	45.00	0.45	0.20	8.10		
		For Cross culvert								
	3.01	3rd A main road AMS Extension		1	5.00	1.50	1.00	7.50		
	3.02	2nd main road AMS Extension		1	6.50	1.50	1.00	9.75		
	3.09	3rd main road AMS Extension		1	7.50	1.50	1.00	11.25		
	3.12	Road parallel to Regency School(Gate-1)		1	7.50	1.50	1.00	11.25		
		50% reduction for Culvert opening						(19.88)		
							Total	394.10	137.80	54,306.29
30	Page No.254 Item No.34.1	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 406								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Cross culvert								
	3.01	3rd A main road AMS Extension		1.00	5.00	1.50	0.10	0.75		
	3.02	2nd main road AMS Extension		1.00	6.50	1.50	0.10	0.98		
	3.09	3rd main road AMS Extension		1.00	7.50	1.50	0.10	1.13		
	3.12	Road parallel to Regency School(Gate-1)		1.00	7.50	1.50	0.10	1.13		
							Total	3.98	4,479.56	17,836.25
31	Page No.229 Item No.28.8.2	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200								
		PWP &IWTD, South Zone, SR:2018-19	Tonns							
		For Cross culvert								
	3.01	3rd A main road AMS Extension			0.75	@90 Kg/Cum Concrete		0.07		
	3.02	2nd main road AMS Extension			0.98	@90 Kg/Cum Concrete		0.09		
	3.09	3rd main road AMS Extension			1.13	@90 Kg/Cum Concrete		0.10		
	3.12	Road parallel to Regency School(Gate-1)			1.13	@90 Kg/Cum Concrete		0.10		
							Total	0.36	72,326.98	25,874.98

Detailed Quantity Estimate for Road and allied Works

BBMP Division: Yelahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
32	Page No.270 Item No.37.59.2	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.89 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200, including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Drain Walls								
		For Chute Drains		8.00	1.61	0.10		1.29		
		For Cross culvert								
		Culvert Bottom slab								
	3.01	3rd A main road AMS Extension		1	5.00	1.50	0.20	1.50		
	3.09	3rd main road AMS Extension		1	7.50	1.50	0.20	2.25		
	3.12	Road parallel to Regency School(Gate-1)		1	7.50	1.50	0.20	2.25		
		Culvert side walls								
	3.01	3rd A main road AMS Extension		2	5.00	0.20	0.90	1.80		
	3.09	3rd main road AMS Extension		2	7.50	0.20	0.90	2.70		
	3.12	Road parallel to Regency School(Gate-1)		2	7.50	0.20	0.90	2.70		
							Total	**14.49**	**7,070.20**	**102,433.06**
33	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 100mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	3.01	3rd A main road AMS Extension	10%	2	215.00	1.00		43.00		
	3.03	3rd cross road AMS Extension	10%	2	120.00	0.90		21.60		
	3.04	Opposite to Rukma Nivas AMS Extension	10%	2	90.00	1.00		18.00		
	3.1	1st cross road AMS Extension	10%	2	107.00	1.00		21.40		
	3.2	9th cross road AMS Extension	10%	2	175.00	1.00		35.00		
	3.21	6th cross road AMS Extension	10%	2	153.00	1.00		30.60		
	3.09	3rd main road AMS Extension	10%	2	340.00	1.00		68.00		
	3.12	Road parallel to Regency School(Gate-1)	10%	2	223.00	1.00		44.60		
	3.13	Road opposite to Regency School(Gate-2)	10%	2	92.00	1.00		18.40		
	3.22	4th A main road AMS Extension	10%	2	160.00	1.00		32.00		
	3.16	9th A main road AMS Extension	10%	1	38.00	1.00		3.80		
	3.17	1st cross road-9th A main road AMS Extension	10%	2	65.00	1.00		13.00		
	3.18	2nd cross road-9th A main road AMS Extension	10%	2	105.00	1.00		21.00		
	3.19	7th A main road AMS Extension	10%	2	45.00	1.00		9.00		
							Total	**379.40**	**2,337.00**	**886,657.80**
34	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	m							
	3.01	3rd A main road AMS Extension		1	5.00	1.50		7.50		
	3.09	3rd main road AMS Extension		1	7.50	1.50		11.25		
	3.12	Road parallel to Regency School(Gate-1)		1	7.50	1.50		11.25		
							Total	**30.00**	**5,418.00**	**162,540.00**
35	Page No.27 Item No 5.33	Removing & Refixing stone slabs of drains and pointing in C. M (1:3)								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	3.01	3rd A main road AMS Extension	3%	1	215.00	0.90		5.81		
	3.03	3rd cross road AMS Extension	3%	1	120.00	0.90		3.24		
	3.04	Opposite to Rukma Nivas AMS Extension	3%	1	90.00	0.90		2.43		
	3.06	Road connecting Vidyaranyapura main road	3%	1	22.00	0.90		0.59		
	3.1	1st cross road AMS Extension	3%	1	107.00	0.90		2.89		
	3.2	9th cross road AMS Extension	3%	1	175.00	0.90		4.73		
	3.21	6th cross road AMS Extension	3%	1	153.00	0.90		4.13		
	3.14	1st main road AMS Extension	3%	1	65.00	0.90		1.76		
	3.09	3rd main road AMS Extension	3%	1	340.00	0.90		9.18		
	3.12	Road parallel to Regency School(Gate-1)	3%	1	223.00	0.90		6.02		
	3.13	Road opposite to Regency School(Gate-2)	3%	1	92.00	0.90		2.48		
	3.15	Road connecting to 2nd main road AMS Extension	3%	1	64.00	0.90		1.73		
	3.22	4th A main road AMS Extension	3%	1	160.00	0.90		4.32		
	3.16	9th A main road AMS Extension	3%	1	38.00	0.90		1.03		
	3.17	1st cross road-9th A main road AMS Extension	3%	1	65.00	0.90		1.76		
	3.18	2nd cross road-9th A main road AMS Extension	3%	1	105.00	0.90		2.84		
	3.19	7th A main road AMS Extension	3%	1	45.00	0.90		1.22		
							Total	**56.13**	**105.00**	**5,893.97**

Detailed Quantity Estimate for Road and allied Works

BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
		Dismantling and miscellaneous Items								
36	Page No 139 Item No.18.26	KSRRB M200-15.1 Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications, as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications. iii) Dismantling Stone Masonry. A. Rubble Stone masonry in lime mortar. MORTH Specification No. 203								
		PWP &IWTD, South Zone, SR.2018-19	Cum							
		For Culverts								
	3.01	3rd A main road AMS Extension		1.00	8.14	0.40	1.00	2.46		
	3.09	3rd main road AMS Extension		1.00	7.12	0.40	1.00	2.85		
	3.12	Road parallel to Regency School(Gate-1)		1.00	7.76	0.40	1.00	3.10		
							Total	8.41	306.34	2,575.92
37	Page No:141 Item No.18.49	KSRRB M200-26. Dismantling Kerb stone by manual means and disposal of dismantled materials with all lifts and complete as per specifications. MORTH Specification No. 202								
		PWP &IWTD, South Zone, SR.2018-19	m					107.50		
	3.01	3rd A main road AMS Extension	25%	2.00	215.00		Total	107.50	12.72	1,367.40
								Total Construction Cost		**16,792,211.53**
								GST 12%		**2,015,065.38**
								Design Report,Proof Checking & PMC Amount		**335,844.23**
								Tender Premium 5%		**839,610.58**
								Sub Total		**19,982,731.72**
								Miscellaneous & Rounding Off		**17,268.28**
								Grand Total		**20,000,000.00**

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted is based on the PWD SR Bangalore Circle for year 2018-19
4. The provisions made in the estimate are necessary and essential.

For Infra Support Engineering Consultants Pvt. Ltd. BANGALORE

Assistant Engineer, Yalahanka Division, BBMP

Assistant Executive Engineer, Yalahanka Division, BBMP

Executive Engineer, Yalahanka Division, BBMP

WORK NO 04: of Package 02
Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yelahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
		Carriageway Improvements								
1	Page No.145. Item No.19.55	KSRRB 300-49: Scarifying bituminous course 50mm to 75mm thick along with premix carpet I surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH I Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	4.04	5th main road (SFS,707)		1.00	340.00	3.50		1,190.00		
	2.04	4th "A" main road AMS Layout		1.00	158.00	2.00		316.00		
							Total	1,506.00	95.40	1,43,672.40
2	Page No. 146. Item No.19.51	KSRRB 300-45: Scarifying stone metal crust 50mm to 100mm thick with pick axes along with premix carpet / surface dressing and stacking of old serviceable materials by manual means including cost of all labour charges complete as per specifications MORTH /								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox		1.00	430.00	1.50		645.00		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		1.00	115.00	1.50		172.50		
	4.04	5th main road (SFS,707)		1.00	340.00	6.50		2,210.00		
	2.04	4th "A" main road AMS Layout		1.00	158.00	4.50		711.00		
							Total	3,738.50	84.80	3,17,024.80
3	Page No.147. Item No.19.66	KSRRB M300-59.2: Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment I subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment I subgrade including HOM construction, labour etc complete as per specifications MORTH								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox		1.00	430.00	1.50		645.00		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		1.00	115.00	1.50		172.50		
	4.04	5th main road (SFS,707)		1.00	340.00	6.50		2,210.00		
	4.05	2nd Cross road Vivekananda Park (SFS 707)		1.00	310.00	2.00		620.00		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)		1.00	325.00	2.00		650.00		
	2.04	4th "A" main road AMS Layout		1.00	158.00	4.50		711.00		
		horizontal cuts		65.00	7.00	0.30		136.50		
							Total	5,145.00	24.38	1,25,435.10
4	Page No.143. Item No.19.14	KSRRB M300-14: Excavation for roadwork in all types of soil by mechanical means including cutting and loading to lippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox		1	430.00	1.50	0.23	145.13		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		1	115.00	1.50	0.23	38.81		
	4.04	5th main road (SFS,707)		1	340.00	6.50	0.23	497.25		
	4.05	2nd Cross road Vivekananda Park (SFS 707)		1	310.00	2.00	0.23	139.50		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)		1	325.00	2.00	0.23	146.25		
	2.04	4th "A" main road AMS Layout		1	158.00	4.50	0.23	159.98		
		horizontal cuts		65	7.00	0.30	0.35	47.78		
							Total	1,174.69	43.46	51,051.92
5	Page No.144. Item No.19.20	KSRRB M300-19: Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications MORTH Specification No. 301								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox		1		145.13		145.13		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		1		38.81		38.81		
	4.04	5th main road (SFS,707)		1		497.25		497.25		
	4.05	2nd Cross road Vivekananda Park (SFS 707)		1		139.50		139.50		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)		1		146.25		146.25		
	2.04	4th "A" main road AMS Layout		1		159.98		159.98		
							Total	1,126.91	34.98	39,419.40

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
6	Page No.153 Item No.20.6	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	4.01	1st main 4th phase Oilmil road upto 1st A main 5th phase beside Sangameshwar Xerox		1	430.00	1.50	0.15	96.75		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		1	115.00	1.50	0.15	25.88		
	4.04	5th main road (SFS,707)		1	340.00	6.50	0.15	331.50		
	4.05	2nd Cross road Vivekananda Park (SFS 707)		1	310.00	2.00	0.15	93.00		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)		1	325.00	2.00	0.15	97.50		
	2.04	4th "A" main road AMS Layout		1	158.00	4.50	0.15	106.65		
		horizontal cuts		65	7.00	0.30	0.15	20.48		
							Total	771.75	1,855.00	14,31,596.25
7	Page No 155 Item No.20.18	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	4.01	1st main 4th phase Oilmil road upto 1st A main 5th phase beside Sangameshwar Xerox	100%	1	430.00	1.50	0.23	145.13		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)	100%	1	115.00	1.50	0.23	38.81		
	4.04	5th main road (SFS,707)	100%	1	340.00	6.50	0.23	497.25		
	4.05	2nd Cross road Vivekananda Park (SFS 707)	100%	1	310.00	2.00	0.23	139.50		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)	100%	1	325.00	2.00	0.23	146.25		
	2.04	4th "A" main road AMS Layout	100%	1	158.00	4.50	0.23	159.98		
		horizontal cuts		65	7.00	0.30	0.23	30.71		
		For Bell mouth improvement		8	8.00	4.00	0.08	19.20		
							Total	1,176.83	2,001.28	23,55,156.34
8	Page No.158, Item No.21.2	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	4.01	1st main 4th phase Oilmil road upto 1st A main 5th phase beside Sangameshwar Xerox		1	430.00	5.50		2,365.00		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		1	115.00	6.00		690.00		
	4.05	2nd Cross road Vivekananda Park (SFS 707)		1	310.00	7.00		2,170.00		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)		1	325.00	7.00		2,275.00		
							Total	7,500.00	5.30	39,750.00
9	Page No.158, Item No.21.6	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg per sqm using mechanical means complete as per specifications. MORTH Specification No. 502								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	4.01	1st main 4th phase Oilmil road upto 1st A main 5th phase beside Sangameshwar Xerox	100%	1	430.00	1.50		645.00		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)	100%	1	115.00	1.50		172.50		
	4.04	5th main road (SFS,707)	100%	1	340.00	6.50		2,210.00		
	4.05	2nd Cross road Vivekananda Park (SFS 707)	100%	1	310.00	2.00		620.00		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)	100%	1	325.00	2.00		650.00		
	2.04	4th "A" main road AMS Layout	100%	1	158.00	4.50		711.00		
		horizontal cuts		65	7	0.30		136.50		
		For Bell mouth improvement		8	8.00	4.00		256.00		
							Total	5,401.00	33.92	1,83,201.92
10	Page No.158, Item No.21.7	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	4.01	1st main 4th phase Oilmil road upto 1st A main 5th phase beside Sangameshwar Xerox		1	430.00	7.00		3,010.00		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		1	115.00	7.70		885.50		
	4.04	5th main road (SFS 707)		1	340.00	6.50		2,210.00		
	4.05	2nd Cross road Vivekananda Park (SFS 707)		1	310.00	9.00		2,790.00		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)		1	325.00	9.00		2,925.00		
	2.04	4th "A" main road AMS Layout		2	158.00	4.50		1,422.00		
		horizontal cuts		65	7	0.3		136.50		
		For Bell mouth improvement		8	8.00	4.00		256.00		
							Total	13,635.00	12.72	1,73,437.20
11	Page No.160. Item No.21.17.2	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox	100%	1	430.00	1.50	0.05	32.25		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)	100%	1	115.00	1.50	0.05	8.63		
	4.04	5th main road (SFS 707)	100%	1	340.00	6.50	0.05	110.50		
	4.05	2nd Cross road Vivekananda Park (SFS 707)	100%	1	310.00	2.00	0.05	31.00		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)	100%	1	325.00	2.00	0.05	32.50		
	2.04	4th "A" main road AMS Layout	100%	1	158.00	4.50	0.05	35.55		
		horizontal cuts		65	7	0.30	0.05	6.83		
		For Bell mouth improvement		8	8.00	4.00	0.05	12.80		
							Total	270.05	7,620.34	20,57,872.82
12	Page No. 171. Item No.21.78.12	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% ofVG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox		1	430.00	7.00	0.04	120.40		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		1	115.00	7.70	0.04	35.42		
	4.04	5th main road (SFS 707)		1	340.00	6.50	0.04	88.40		
	4.05	2nd Cross road Vivekananda Park (SFS 707)		1	310.00	9.00	0.04	111.60		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)		1	325.00	9.00	0.04	117.00		
	2.04	4th "A" main road AMS Layout		1	158.00	4.50	0.03	21.33		
		horizontal cuts		65	6	0.30	0.04	4.70		
		For Bell mouth improvement		8	8.00	4.00	0.04	10.24		
							Total	509.09	8,699.42	44,28,796.27
13	Page No.187. Item No.24.41	KSRRB M800 Road markers/Road stud. KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 - DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer with 2 years warranty for the reflectivity from the original manufacturer is mandatory along with necessary test certification from the certified laboratory. Third party test certificate from a recognised test laboratory shall be submitted with Bond and Procedure								
		PWP &IWTD, South Zone, SR:2018-19	Nos							
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox		2	7.00			14.00		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		2	7.70			16.00		
	4.04	5th main road (SFS 707)		2	6.50			13.00		
	4.05	2nd Cross road Vivekananda Park (SFS 707)		2	9.00			18.00		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)		2	9.00			18.00		
	2.04	4th "A" main road AMS Layout		2	4.50			9.00		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
							Total	88.00	357.22	31,435.36
14	Page No.182 Item No.24.15	KSRRB M800-13. Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface.- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specificaton No. 803								
		PWP &IWTD, South Zone. SR:2018-19	Sqm							
		Centre Line								
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox		1	430.00	0.10		14.33		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		1	115.00	0.10		3.83		
	4.04	5th main road (SFS,707)		1	340.00	0.10		11.33		
	4.05	2nd Cross road Vivekananda Park (SFS 707)		1	310.00	0.10		10.33		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)		1	325.00	0.10		10.83		
		Edge Line								
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox		2	430.00	0.15		129.00		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		2	115.00	0.15		34.50		
	4.04	5th main road (SFS,707)		2	340.00	0.15		102.00		
	4.05	2nd Cross road Vivekananda Park (SFS 707)		2	310.00	0.15		93.00		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)		2	325.00	0.15		97.50		
	2.04	4th "A" main road AMS Layout		2	158.00	0.15		47.40		
							Total	554.07	454.74	2,51,956.28
15	Page No.190 Item No.24.59	Supply and fixing of Retro Reflective Single Arrow Road Name Signboard of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956- 09 & as per IRC 67-2012 forfull back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete, as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for theretro reflective sheeting offered shall be submitted by the contractor for technical qualification in the tender.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox		1	1.60	0.90		1.44		
	4.02	1st Cross Road, SFS 707 (4th Phase)		1	1.60	0.90		1.44		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		1	1.60	0.90		1.44		
	4.04	5th main road (SFS,707)		1	1.60	0.90		1.44		
	4.05	2nd Cross road Vivekananda Park (SFS 707)		1	1.60	0.90		1.44		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)		1	1.60	0.90		1.44		
	2.04	4th "A" main road AMS Layout		1	1.60	0.90		1.44		
							Total	10.08	14,094.82	1,42,075.79
16	Item No 23 KUWS&DB 2018-19	Supply and fixing of medium duty SFRC Frame and Cover confirming to IS 12592 (part-I) 1988 and IS 12592 (part-II)-1991 with latest amendment including cutting slabs to the required size for the opening and fixing the cover in CC 1:2:4 and CM 1:3 plastering 20mm thick to all exposed faces, curing for 10 days with all lead and lift etc. complete. - Do heavy duty								
		KUWS&DB SR 2018-19	No.							
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox		4				4.00		
	4.02	1st Cross Road, SFS 707 (4th Phase)		6				6.00		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		2				2.00		
	4.04	5th main road (SFS,707)		5				5.00		
	4.05	2nd Cross road Vivekananda Park (SFS 707)		3				3.00		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)		5				5.00		
							Total	25.00	2,203.74	55,093.50

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
17	Page No.270 Item No.37.59.1	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No 1500, 1700, 2200, including cost of materials, labour, HOM complete as per								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Manhole Raising								
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox		4	2.83	0.15	0.10	0.17		
	4.02	1st Cross Road, SFS 707 (4th Phase)		6	2.83	0.15	0.10	0.25		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		2	2.83	0.15	0.10	0.08		
	4.04	5th main road (SFS 707)		5	2.83	0.15	0.10	0.21		
	4.05	2nd Cross road Vivekananda Park (SFS 707)		3	2.83	0.15	0.10	0.13		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)		5	2.83	0.15	0.10	0.21		
							Total	1.06	7,273.72	7,708.32
18	Page No.136 Item No.17.1	KSRRB M100-1 Loading and Unloading of Stone Boulder I Stone aggregates ISand/ Kanker J Moorum. KSRRB M100-1 Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications								
		PWP &IWTD, South Zone, SR:2018-19	cum					1,174.69		
		For Road Excavation						5,244.50		
		For Dismantling of BT, Granular layers						33.68		
		Dismantling of Masonry.					Total	6,452.87	60.42	3,89,882.25
19	Page No.136 Item No.17.4	KSRRB M100-4.1 Cost of Haulage Excluding loading and Unloading MORTH -100/ Chapter 1 Case-1: Surface Road								
		PWP &IWTD, South Zone, SR:2018-19	Lkm					18,043.20		
		For Road Excavation						81,814.20		
		For Dismantling of BT, Granular layers						525.41		
		Dismantling of Masonry.					Total	#########	2.12	2,12,811.55
		Footpath Improvements								
20	Page No.254 Item No.34.1	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications MORTH Specification No. 406								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Below Kerb Stone								
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox	40%	2.00	430.00	0.20	0.10	6.88		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)	30%	2.00	115.00	0.20	0.10	1.38		
	4.05	2nd Cross road Vivekananda Park (SFS 707)	20%	2.00	310.00	0.20	0.10	2.48		
							Total	10.74	4,479.56	48,110.47
21	Page No.27 Item No.5.30	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete								
		PWP &IWTD, South Zone, SR:2018-19	No							
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox	40%	2.00	430.00			764.44		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)	30%	2.00	115.00			153.33		
	4.05	2nd Cross road Vivekananda Park (SFS 707)	20%	2.00	310.00			275.56		
							Total	1,193.33	432.48	5,16,092.80
22	Page No.270 Item No.37.57	Removing and resetting of kerb stones								
		PWP &IWTD, South Zone, SR:2018-19	m							
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox	30%	2	430.00			258.00		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)	40%	2	115.00			92.00		
	4.05	2nd Cross road Vivekananda Park (SFS 707)	20%	2	310.00			124.00		
							Total	474.00	104.94	49,741.56

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
23	Page No.180 Item No.24.1	KSRRB 800-1: Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox	70%	2	430.00	0.27		159.53		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)	70%	2	115.00	0.27		42.67		
	4.05	2nd Cross road Vivekananda Park (SFS 707)	40%	2	310.00	0.27		65.72		
							Total	267.92	84.80	22,719.19
24	Page No.270 Item No 37.56	Dismantling / Removing and resetting of footpath slab, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications. as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox	75%	2.00	430.00	1.10		709.50		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)	75%	2.00	115.00	1.10		189.75		
	4.04	5th main road (SFS 707)	65%	2.00	340.00	1.10		486.20		
	4.05	2nd Cross road Vivekananda Park (SFS 707)	70%	2.00	310.00	1.10		477.40		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)	55%	2.00	325.00	1.10		393.25		
	2.04	4th "A" main road AMS Layout	60%	2.00	158.00	1.10		208.56		
							Total	2,464.66	208.82	5,14,670.30
		Drain Improvements								
25	Page No.143 Item No.19.1	KSRRB 300-1: Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Desilting								
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox		2	430.00	0.45	0.15	58.05		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		2	115.00	0.45	0.15	15.53		
	4.04	5th main road (SFS 707)		2	340.00	0.45	0.15	45.90		
	4.05	2nd Cross road Vivekananda Park (SFS 707)		2	310.00	0.45	0.15	41.85		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)		2	325.00	0.45	0.15	43.88		
	2.04	4th "A" main road AMS Layout		2	158.00	0.45	0.15	21.33		
		For Cross culvert								
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox		3	7.00	1.50	1.00	31.50		
	4.02	1st Cross Road, SFS 707 (4th Phase)		1	6.50	1.50	1.00	9.75		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		1	7.50	1.50	1.00	11.25		
	4.04	5th main road (SFS 707)		3	6.00	1.50	1.00	27.00		
	4.05	2nd Cross road Vivekananda Park (SFS 707)		1	9.00	1.50	1.00	13.50		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)		3	9.00	1.50	1.00	40.50		
		50% reduction for Culvert opening						(66.75)		
							Total	293.28	137.80	40,413.98
26	Page No.254 Item No 34.1	KSRRB M2900-1: Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 406								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Cross culvert								
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox		3.00	7.00	1.50	0.10	3.15		
	4.02	1st Cross Road, SFS 707 (4th Phase)		1.00	6.50	1.50	0.10	0.98		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		1.00	7.50	1.50	0.10	1.13		
	4.04	5th main road (SFS 707)		3.00	6.00	1.50	0.10	2.70		
	4.05	2nd Cross road Vivekananda Park (SFS 707)		1.00	9.00	1.50	0.10	1.35		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)		3.00	9.00	1.50	0.10	4.05		
							Total	13.35	4,479.56	59,802.13

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
27	Page No.229 Item No.28.8.2	KSRRB M2200-6 Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No 1600 & 2200								
		PWP &IWTD, South Zone, SR:2018-19	Tonns							
		For Cross culvert								
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox			3.15	@90 Kg/Cum Concrete		0.28		
	4.02	1st Cross Road, SFS 707 (4th Phase)			0.98	@90 Kg/Cum Concrete		0.09		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)			1.13	@90 Kg/Cum Concrete		0.10		
	4.04	5th main road (SFS,707)			2.70	@90 Kg/Cum Concrete		0.24		
	4.05	2nd Cross road Vivekananda Park (SFS 707)			1.35	@90 Kg/Cum Concrete		0.12		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)			4.05	@90 Kg/Cum Concrete		0.36		
							Total	1.20	72,326.98	86,900.87
28	Page No.270 Item No.37.59.2	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200 including cost of materials, labour, HOM complete as per								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Drain Walls								
		For Chute Drains		44.00	1.61	0.10		7.08		
		For Cross culvert								
		Culvert Bottom slab								
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox		3	7.00	1.50	0.20	6.30		
	4.02	1st Cross Road, SFS 707 (4th Phase)		1	6.50	1.50	0.20	1.95		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		1	7.50	1.50	0.20	2.25		
	4.04	5th main road (SFS,707)		3	6.00	1.50	0.20	5.40		
	4.05	2nd Cross road Vivekananda Park (SFS 707)		1	9.00	1.50	0.20	2.70		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)		3	9.00	1.50	0.20	8.10		
		Culvert side walls								
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox		6	7.00	0.20	0.90	7.56		
	4.02	1st Cross Road, SFS 707 (4th Phase)		2	6.50	0.20	0.90	2.34		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		2	7.50	0.20	0.90	2.70		
	4.04	5th main road (SFS,707)		6	6.00	0.20	0.90	6.48		
	4.05	2nd Cross road Vivekananda Park (SFS 707)		2	9.00	0.20	0.90	3.24		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)		6	9.00	0.20	0.90	9.72		
							Total	65.82	7,070.20	4,65,388.84
29	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 100mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox	15%	2	430.00	1.10		141.90		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)	15%	2	115.00	1.10		37.95		
	4.04	5th main road (SFS,707)	25%	2	340.00	1.10		187.00		
	4.05	2nd Cross road Vivekananda Park (SFS 707)	20%	2	310.00	1.10		136.40		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)	30%	2	325.00	1.10		214.50		
	2.04	4th "A" main road AMS Layout	10%	2	158.00	1.00		31.60		
		For Chute Drain		44.00	1.61	0.40		28.34		
							Total	777.69	2,337.00	18,17,452.18
30	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	m							

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox		3	7.00	1.50		31.50		
	4.02	1st Cross Road, SFS 707 (4th Phase)		1	6.50	1.50		9.75		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		1	7.50	1.50		11.25		
	4.04	5th main road (SFS,707)		3	6.00	1.50		27.00		
	4.05	2nd Cross road Vivekananda Park (SFS 707)		1	9.00	1.50		13.50		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)		3	9.00	1.50		40.50		
							Total	133.50	5,418.00	7,23,303.00
31	Page No.27, Item No.5.33	Removing & Refixing stone slabs of drains and pointing in C. M (1:3)								
		PWP &IWTD, South Zone, SR.2018-19	Sqm							
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox	3%	1	430.00	1.10		14.19		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)	3%	1	115.00	1.10		3.80		
	4.04	5th main road (SFS,707)	3%	1	340.00	1.10		11.22		
	4.05	2nd Cross road Vivekananda Park (SFS 707)	3%	1	310.00	1.10		10.23		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)	3%	1	325.00	1.10		10.73		
	2.04	4th "A" main road AMS Layout	5%	1	158.00	0.90		7.11		
							Total	57.27	105.00	6,013.35
		Dismantling and miscellaneous Items								
32	Page No.139, Item No.18.26	KSRRB M200-15.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications. iii) Dismantling Stone Masonry: A. Rubble Stone masonry in lime mortar. MORTH Specification No. 202								
		PWP &IWTD, South Zone, SR.2018-19	Cum							
		For Culverts								
	4.01	1st main 4th phase Oilmill road upto 1st A main 5th phase beside Sangameshwar Xerox		3.00	7.00	0.40	1.00	8.40		
	4.03	Beside United Resident Association/ Opposite-Guhe (House)		1.00	7.70	0.40	1.00	3.08		
	4.04	5th main road (SFS,707)		3.00	6.50	0.40	1.00	7.80		
	4.05	2nd Cross road Vivekananda Park (SFS 707)		1.00	9.00	0.40	1.00	3.60		
	4.06	4th cross road CHS 707 SFS (Karnataka Gramina Bank)		3.00	9.00	0.40	1.00	10.80		
							Total	33.68	306.34	10,317.53
									Total Construction Cost	1,67,98,303.68
									GST 12%	20,15,796.44
									Design Report,Proof Checking & PMC Amount	3,35,966.07
									Tender Premium 5%	8,39,915.18
									Sub Total	1,99,89,981.38
									Miscellaneous & Rounding Off	10,018.62
									Grand Total	2,00,00,000.00

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted is based on the PWD SR Bangalore Circle for year 2018-19
4. The provisions made in the estimate are necessary and essential.

For M/s. Infrasupport Engineering Consultants Pvt. Ltd. BANGALORE

Assistant Engineer, Yalahanka Division, BBMP

Assistant Executive Engineer,

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪವಿಭಾಗ, ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Executive Engineer, Yalahanka Division, BBMP

WORK NO 05 : of Package 02
Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yelahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
		Carriageway Improvements								
1	Page No.146 Item No.19.55	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications MORTH / Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.04	3rd cross road Venugopal Layout		1.00	132.00	3.00		396.00		
	3.02	2nd main road AMS Extension		1.00	172.00	4.00		688.00		
	3.05	Beside Arohana Stationaries to Vrindhavan Apartments		1.00	100.00	4.00		400.00		
	3.07	Vidyaranyapura 1st main road AMS Extension		1.00	180.00	3.00		540.00		
	3.08	5th A main road AMS Extension		1.00	160.00	2.00		320.00		
	3.11	2nd A main road AMS Extension		1.00	120.00	2.00		240.00		
	2.18	4th B main road AMS Layout		1.00	155.00	3.00		465.00		
	2.17	3rd cross road AMS Layout		0.85	350.00	2.00		595.00		
							Total	**3,644.00**	**95.4**	**347,637.60**
2	Page No. 146 Item No.19.51	KSRRB 300-45. Scarifying stone metal crust 50mm to 100mm thick with pick axes along with premix carpet / surface dressing and stacking of old serviceable materials by manual means including cost of all labour charges complete as per specifications MORTH / Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	5.04	1st cross connecting 2nd main		1.00	40.00	1.00		40.00		
	5.06a	Road connecting 1st main and 3rd main road beside #137		1.00	144.00	1.00		144.00		
	5.06b	Road connecting 1st main and 3rd main road beside #137		1.00	50.00	1.00		50.00		
	5.06c	Road connecting 1st main and 3rd main road beside #137		1.00	130.00	1.00		130.00		
	5.07a	Little Elly School to Amman International School		1.00	50.00	1.00		50.00		
	1.04	3rd cross road Venugopal Layout		1.00	132.00	5.50		726.00		
	3.02	2nd main road AMS Extension		1.00	172.00	6.50		1,118.00		
	3.05	Beside Arohana Stationaries to Vrindhavan Apartments		1.00	100.00	5.50		550.00		
	3.07	Vidyaranyapura 1st main road AMS Extension		1.00	180.00	4.50		810.00		
	3.08	5th A main road AMS Extension		1.00	160.00	5.10		816.00		
	3.11	2nd A main road AMS Extension		1.00	120.00	4.10		492.00		
	2.18	4th B main road AMS Layout		1.00	155.00	6.50		1,007.50		
	2.17	3rd cross road AMS Layout		-	350.00	5.50		-		
		Horizontal Cross Cuts		111.00	8.50	0.30		283.05		
							Total	**6,216.55**	**84.80**	**527,163.44**
3	Page No.147 Item No.19.66	KSRRB M300-59.2. Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment / subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment / subgrade including HOM construction, labour etc., complete as per specifications. MORTH Specification No. 305.3.4								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	5.04	1st cross connecting 2nd main		1.00	40.00	1.00		40.00		
	5.06a	Road connecting 1st main and 3rd main road beside #137		1.00	144.00	1.00		144.00		
	5.06b	Road connecting 1st main and 3rd main road beside #137		1.00	50.00	1.00		50.00		
	5.06c	Road connecting 1st main and 3rd main road beside #137		1.00	130.00	1.00		130.00		
	5.07a	Little Elly School to Amman International School		1.00	50.00	1.00		50.00		
	1.04	3rd cross road Venugopal Layout		1.00	132.00	5.50		726.00		
	3.02	2nd main road AMS Extension		1.00	172.00	6.50		1,118.00		
	3.05	Beside Arohana Stationaries to Vrindhavan Apartments		1.00	100.00	5.50		550.00		
	3.07	Vidyaranyapura 1st main road AMS Extension		1.00	180.00	4.50		810.00		
	3.08	5th A main road AMS Extension		1.00	160.00	5.10		816.00		
	3.11	2nd A main road AMS Extension		1.00	120.00	4.10		492.00		
	2.18	4th B main road AMS Layout		1.00	155.00	6.50		1,007.50		
		Horizontal Cross Cuts		111.00	8.50	0.30		283.05		
							Total	**6,216.55**	**24.38**	**151,559.49**
4	Page No.143 Item No.19.14	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	5.04	1st cross connecting 2nd main		1	40.00	1.00	0.23	9.00		
	5.06a	Road connecting 1st main and 3rd main road beside #137		1	144.00	1.00	0.23	32.40		
	5.06b	Road connecting 1st main and 3rd main road beside #137		1	50.00	1.00	0.23	11.25		
	5.06c	Road connecting 1st main and 3rd main road beside #137		1	130.00	1.00	0.23	29.25		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yelahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
	5.07a	Little Elly School to Amman International School		1	50.00	1.00	0.23	11.25		
	1.04	3rd cross road Venugopal Layout		1.00	132.00	5.50	0.23	163.35		
	3.02	2nd main road AMS Extension		1.00	172.00	6.50	0.23	251.55		
	3.05	Beside Arohana Stationaries to Vrindhavan Apartments		1.00	100.00	5.50	0.23	123.75		
	3.07	Vidyaranyapura 1st main road AMS Extension		1.00	180.00	4.50	0.23	182.25		
	3.08	5th A main road AMS Extension		1.00	160.00	5.10	0.23	183.60		
	3.11	2nd A main road AMS Extension		1.00	120.00	4.10	0.23	110.70		
	2.18	4th B main road AMS Layout		1.00	155.00	6.50	0.23	226.69		
		Horizontal Cross Cuts		111	8.50	0.30	0.23	63.69		
							Total	1,398.72	43.46	60,788.53
5	Page No.144 Item No.19.20	KSRRB M300-19: Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications. MORTH Specification No. 301								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	5.04	1st cross connecting 2nd main		1		9.00		9.00		
	5.06a	Road connecting 1st main and 3rd main road beside #137		1		32.40		32.40		
	5.06b	Road connecting 1st main and 3rd main road beside #137		1		11.25		11.25		
	5.06c	Road connecting 1st main and 3rd main road beside #137		1		29.25		29.25		
	5.07a	Little Elly School to Amman International School		1		11.25		11.25		
	1.04	3rd cross road Venugopal Layout		1		163.35		163.35		
	3.02	2nd main road AMS Extension		1		251.55		251.55		
	3.05	Beside Arohana Stationaries to Vrindhavan Apartments		1		123.75		123.75		
	3.07	Vidyaranyapura 1st main road AMS Extension		1		182.25		182.25		
	3.08	5th A main road AMS Extension		1		183.60		183.60		
	3.11	2nd A main road AMS Extension		1		110.70		110.70		
	2.18	4th B main road AMS Layout		1		226.69		226.69		
		Horizontal Cross Cuts		111	8.50	0.30		283.05		
							Total	1,618.09	34.98	56,600.70
6	Page No.153, Item No.20.6	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	5.04	1st cross connecting 2nd main		1	40.00	1.00	0.15	6.00		
	5.06a	Road connecting 1st main and 3rd main road beside #137		1	144.00	1.00	0.15	21.60		
	5.06b	Road connecting 1st main and 3rd main road beside #137		1	50.00	1.00	0.15	7.50		
	5.06c	Road connecting 1st main and 3rd main road beside #137		1	130.00	1.00	0.15	19.50		
	5.07a	Little Elly School to Amman International School		1	50.00	1.00	0.15	7.50		
	1.04	3rd cross road Venugopal Layout		1.00	132.00	5.50	0.15	108.90		
	3.02	2nd main road AMS Extension		1.00	172.00	6.50	0.15	167.70		
	3.05	Beside Arohana Stationaries to Vrindhavan Apartments		1.00	100.00	5.50	0.15	82.50		
	3.07	Vidyaranyapura 1st main road AMS Extension		1.00	180.00	4.50	0.15	121.50		
	3.08	5th A main road AMS Extension		1.00	160.00	5.10	0.15	122.40		
	3.11	2nd A main road AMS Extension		1.00	120.00	4.10	0.15	73.80		
	2.18	4th B main road AMS Layout		1.00	155.00	6.50	0.15	151.13		
		Horizontal Cross Cuts		111	8.50	0.30	0.15	42.46		
							Total	932.48	1,855.00	1,729,755.04
7	Page No. 155, Item No.20.18	KSRRB M400-17: Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	5.04	1st cross connecting 2nd main	100%	1	40.00	1.00	0.23	9.00		
	5.06a	Road connecting 1st main and 3rd main road beside #137	100%	1	144.00	1.00	0.23	32.40		
	5.06b	Road connecting 1st main and 3rd main road beside #137	100%	1	50.00	1.00	0.23	11.25		
	5.06c	Road connecting 1st main and 3rd main road beside #137	100%	1	130.00	1.00	0.23	29.25		
	5.07a	Little Elly School to Amman International School	100%	1	50.00	1.00	0.23	11.25		
	1.04	3rd cross road Venugopal Layout	100%	1.00	132.00	5.50	0.23	163.35		
	3.02	2nd main road AMS Extension	100%	1.00	172.00	6.50	0.23	251.55		
	3.05	Beside Arohana Stationaries to Vrindhavan Apartments	100%	1.00	100.00	5.50	0.23	123.75		
	3.07	Vidyaranyapura 1st main road AMS Extension	100%	1.00	180.00	4.50	0.23	182.25		
	3.08	5th A main road AMS Extension	100%	1.00	160.00	5.10	0.23	183.60		
	3.11	2nd A main road AMS Extension	100%	1.00	120.00	4.10	0.23	110.70		
	2.18	4th B main road AMS Layout	100%	1.00	155.00	6.50	0.23	226.69		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yelahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
		Horizontal Cross Cuts		111	8.50	0.30	0.23	63.69		
		For Bell mouth improvement		8	8.00	4.00	0.08	19.20		
							Total	1,417.92	2,001.28	2,837,662.44
8	Page No.158 Item No.21.2	KSRRB 500-2 Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications MORTH specification clause 501								
		PWP &IWTD, South Zone, SR 2018-19	Sqm							
	5.04	1st cross connecting 2nd main		1	40.00	7.00		280.00		
	5.06a	Road connecting 1st main and 3rd main road beside #137		1	144.00	8.00		1,152.00		
	5.06b	Road connecting 1st main and 3rd main road beside #137		1	50.00	11.00		550.00		
	5.06c	Road connecting 1st main and 3rd main road beside #137		1	130.00	10.00		1,300.00		
	5.07a	Little Elly School to Amman International School		1	50.00	9.00		450.00		
							Total	3,732.00	5.30	19,779.60
9	Page No.158 Item No.21.6	KSRRB M500-6 Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg per sqm using mechanical means complete as per specifications. MORTH Specification No. 502								
		PWP &IWTD, South Zone, SR 2018-19	Sqm							
	5.04	1st cross connecting 2nd main	100%	1.00	40.00	1.00		40.00		
	5.06a	Road connecting 1st main and 3rd main road beside #137	100%	1.00	144.00	1.00		144.00		
	5.06b	Road connecting 1st main and 3rd main road beside #137	100%	1.00	50.00	1.00		50.00		
	5.06c	Road connecting 1st main and 3rd main road beside #137	100%	1.00	130.00	1.00		130.00		
	5.07a	Little Elly School to Amman International School	100%	1.00	50.00	1.00		50.00		
	1.04	3rd cross road Venugopal Layout		1.00	132.00	5.50		726.00		
	3.02	2nd main road AMS Extension		1.00	172.00	6.50		1,118.00		
	3.05	Beside Arohana Stationaries to Vrindhavan Apartments		1.00	100.00	5.50		550.00		
	3.07	Vidyaranyapura 1st main road AMS Extension		1.00	180.00	4.50		810.00		
	3.08	5th A main road AMS Extension		1.00	160.00	5.10		816.00		
	3.11	2nd A main road AMS Extension		1.00	120.00	4.10		492.00		
	2.18	4th B main road AMS Layout		1.00	155.00	6.50		1,007.50		
		Horizontal Cross Cuts		111.00	8.50	0.30		283.05		
		For Bell mouth improvement		8	8.00	4.00		256.00		
							Total	6,472.55	33.92	219,548.90
10	Page No.158 Item No.21.7	KSRRB 500-7 Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5								
		PWP &IWTD, South Zone, SR 2018-19	Sqm							
	5.04	1st cross connecting 2nd main		1	40.00	7.00		280.00		
	5.06a	Road connecting 1st main and 3rd main road beside #137		1	144.00	8.00		1,152.00		
	5.06b	Road connecting 1st main and 3rd main road beside #137		1	50.00	11.00		550.00		
	5.06c	Road connecting 1st main and 3rd main road beside #137		1	130.00	10.00		1,300.00		
	5.07a	Little Elly School to Amman International School		1	50.00	9.00		450.00		
	1.04	3rd cross road Venugopal Layout		2.00	132.00	5.50		1,452.00		
	3.02	2nd main road AMS Extension		2.00	172.00	6.50		2,236.00		
	3.05	Beside Arohana Stationaries to Vrindhavan Apartments		2.00	100.00	5.50		1,100.00		
	3.07	Vidyaranyapura 1st main road AMS Extension		2.00	180.00	4.50		1,620.00		
	3.08	5th A main road AMS Extension		2.00	160.00	5.10		1,632.00		
	3.11	2nd A main road AMS Extension		2.00	120.00	4.10		984.00		
	2.18	4th B main road AMS Layout		2.00	155.00	6.50		2,015.00		
		For Bell mouth improvement		8	8.00	4.00		256.00		
							Total	15,027.00	12.72	191,143.44
11	Page No.160 Item No.21.17.2	KSRRB M500-17 Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen								
		PWP &IWTD, South Zone, SR 2018-19	Cum							
	5.04	1st cross connecting 2nd main	100%	1	40.00	1.00	0.05	2.00		
	5.06a	Road connecting 1st main and 3rd main road beside #137	100%	1	144.00	1.00	0.05	7.20		
	5.06b	Road connecting 1st main and 3rd main road beside #137	100%	1	50.00	1.00	0.05	2.50		
	5.06c	Road connecting 1st main and 3rd main road beside #137	100%	1	130.00	1.00	0.05	6.50		
	5.07a	Little Elly School to Amman International School	100%	1	50.00	1.00	0.05	2.50		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yelahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
	1.04	3rd cross road Venugopal Layout	100%	1.00	132.00	5.50	0.05	36.30		
	3.02	2nd main road AMS Extension	100%	1.00	172.00	6.50	0.05	55.90		
	3.05	Beside Arohana Stationaries to Vrindhavan Apartments	100%	1.00	100.00	5.50	0.05	27.50		
	3.07	Vidyaranyapura 1st main road AMS Extension	100%	1.00	180.00	4.50	0.05	40.50		
	3.08	5th A main road AMS Extension	100%	1.00	160.00	5.10	0.05	40.80		
	3.11	2nd A main road AMS Extension	100%	1.00	120.00	4.10	0.05	24.60		
	2.18	4th B main road AMS Layout	100%	1.00	155.00	6.50	0.05	50.38		
		Horizontal Cross Cuts		111	8.50	0.30	0.05	14.15		
		For Bell mouth improvement		8	8.00	4.00	0.05	12.80		
							Total	**323.63**	**7,620.34**	**2,466,151.58**
12	Page No. 171 Item No.21.78.12	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.60- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	5.04	1st cross connecting 2nd main		1	40.00	7.00	0.04	11.20		
	5.06a	Road connecting 1st main and 3rd main road beside #137		1	144.00	8.00	0.04	46.08		
	5.06b	Road connecting 1st main and 3rd main road beside #137		1	50.00	11.00	0.04	22.00		
	5.06c	Road connecting 1st main and 3rd main road beside #137		1	130.00	10.00	0.04	52.00		
	5.07a	Little Elly School to Amman International School		1	50.00	9.00	0.04	18.00		
	1.04	3rd cross road Venugopal Layout		1.00	132.00	5.50	0.03	21.78		
	3.02	2nd main road AMS Extension		1.00	172.00	6.50	0.03	33.54		
	3.05	Beside Arohana Stationaries to Vrindhavan Apartments		1.00	100.00	5.50	0.03	16.50		
	3.07	Vidyaranyapura 1st main road AMS Extension		1.00	180.00	4.50	0.03	24.30		
	3.08	5th A main road AMS Extension		1.00	160.00	5.10	0.03	24.48		
	3.11	2nd A main road AMS Extension		1.00	120.00	4.10	0.03	14.76		
	2.18	4th B main road AMS Layout		1.00	155.00	6.50	0.03	29.78		
		For Bell mouth improvement		8	8.00	4.00	0.04	10.24		
							Total	**324.66**	**8,699.42**	**2,824,310.20**
13	Page No.187 Item No.24.41	KSRRB M800 Road markers/Road stud. KSRRB M800-35 Supply and Installion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 - DO II Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer with 2 years warranty for the reflectivity from the original manufacturer is mandatory along with necessary test certification from the certified laboratory. Third party								
		PWP &IWTD, South Zone, SR:2018-19	Nos							
	5.02b	4th main road 208 SFS		2	6.50			13.00		
	5.03b	2nd main road 208 SFS		2	8.50			17.00		
	5.03c	2nd main road 208 SFS		2	6.50			13.00		
	5.04	1st cross connecting 2nd main		2	7.00			14.00		
	5.06a	Road connecting 1st main and 3rd main road beside #137		2	8.00			16.00		
	5.06b	Road connecting 1st main and 3rd main road beside #137		2	11.00			22.00		
	5.06c	Road connecting 1st main and 3rd main road beside #137		2	10.00			20.00		
	5.07a	Little Elly School to Amman International School		2	9.00			18.00		
	1.04	3rd cross road Venugopal Layout		2	5.50			11.00		
	3.02	2nd main road AMS Extension		2	6.50			13.00		
	3.05	Beside Arohana Stationaries to Vrindhavan Apartments		2	5.50			11.00		
	3.07	Vidyaranyapura 1st main road AMS Extension		2	4.50			9.00		
	3.08	5th A main road AMS Extension		2	5.10			11.00		
	3.11	2nd A main road AMS Extension		2	4.10			9.00		
	2.18	4th B main road AMS Layout		2.00	6.50			13.00		
	2.17	3rd cross road AMS Layout		2.00	5.50			11.00		
							Total	**221.00**	**357.22**	**78,945.62**
14	Page No.182 Item No.24.15	KSRRB M800-13 Road Marking with Hot Applied Thermoplastic Compound with Reflectising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications MORTH Specification No. 803								

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
		Centre Line								
	5.04	1st cross connecting 2nd main		1	40.00	0.10		1.33		
	5.06a	Road connecting 1st main and 3rd main road beside #137		1	144.00	0.10		4.80		
	5.06b	Road connecting 1st main and 3rd main road beside #137		1	50.00	0.10		1.67		
	5.06c	Road connecting 1st main and 3rd main road beside #137		1	130.00	0.10		4.33		
	5.07a	Little Elly School to Amman International School		1	50.00	0.10		1.67		
	3.02	2nd main road AMS Extension		1	172.00	0.10		5.73		
		Edge Line								
	5.04	1st cross connecting 2nd main		2	40.00	0.15		12.00		
	5.06a	Road connecting 1st main and 3rd main road beside #137		2	144.00	0.15		43.20		
	5.06b	Road connecting 1st main and 3rd main road beside #137		2	50.00	0.15		15.00		
	5.06c	Road connecting 1st main and 3rd main road beside #137		2	130.00	0.15		39.00		
	5.07a	Little Elly School to Amman International School		2	50.00	0.15		15.00		
	1.04	3rd cross road Venugopal Layout		2.00	132.00	0.15		39.60		
	3.02	2nd main road AMS Extension		2.00	172.00	0.15		51.60		
	3.05	Beside Arohana Stationaries to Vrindhavan Apartments		2.00	100.00	0.15		30.00		
	3.07	Vidyaranyapura 1st main road AMS Extension		2.00	180.00	0.15		54.00		
	3.08	5th A main road AMS Extension		2.00	160.00	0.15		48.00		
	3.11	2nd A main road AMS Extension		2.00	120.00	0.15		36.00		
	2.18	4th B main road AMS Layout		2.00	155.00	0.15		46.50		
	2.17	3rd cross road AMS Layout		2.00	350.00	0.15		105.00		
							Total	554.43	454.74	252,123.01
15	Page No.190 Item No.24.59	Supply and fixing of Retro Reflective Single Arrow Road Name Signboard of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956-09 & as per IRC 67-2012 forfull back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete, as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	5.01	3rd main road, 208 SFS		2	1.60	0.90		2.88		
	5.02a	4th main road 208 (SFS)		2	1.60	0.90		2.88		
	5.03a	4th main road 208 (SFS)		2	1.60	0.90		2.88		
	5.04	1st cross connecting 2nd main		1	1.60	0.90		1.44		
	5.05	1st main road 208 (SFS)		2	1.60	0.90		2.88		
	5.06a	Road connecting 1st main and 3rd main road beside #137		2	1.60	0.90		2.88		
	5.07a	Little Elly School to Amman International School		1	1.60	0.90		1.44		
	3.02	2nd main road AMS Extension		1.00	1.60	0.90		1.44		
	3.05	Beside Arohana Stationaries to Vrindhavan Apartments		1.00	1.60	0.90		1.44		
	3.07	Vidyaranyapura 1st main road AMS Extension		1.00	1.60	0.90		1.44		
	3.08	5th A main road AMS Extension		1.00	1.60	0.90		1.44		
	3.11	2nd A main road AMS Extension		1.00	1.60	0.90		1.44		
	2.18	4th B main road AMS Layout		1.00	1.60	0.90		1.44		
	2.17	3rd cross road AMS Layout								
							Total	27.36	14,094.82	385,634.28
16	Item No 23 KUWS&DB 2018-19	Supply and fixing of medium duty SFRC Frame and Cover confirming to IS 12592 (part-I) 1988 and IS 12592 (part-II)-1991 with latest amendment including cutting slabs to the required size for the opening and fixing the cover in CC 1:2:4 and CM 1:3 plastering 20mm thick to all exposed faces, curing for 10 days with all lead and lift etc. complete. -Do heavy duty								
		KUWS&DB SR 2018-19	No.							
	5.02a	4th main road 208 (SFS)		3				3.00		
	5.03a	4th main road 208 (SFS)		4				4.00		
	5.04	1st cross connecting 2nd main		2				2.00		
	5.05	1st main road 208 (SFS)		2				2.00		
	5.06a	Road connecting 1st main and 3rd main road beside #137		3				3.00		
	5.07a	Little Elly School to Amman International School		1				1.00		
	5.07b	Little Elly School to Amman International School		1				1.00		
	2.17	3rd cross road AMS Layout		4.00				4.00		
							Total	20.00	2,203.74	44,074.80

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
17	Page No.270 Item No.37.59.1	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.89 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200 including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Manhole Raising								
	5.02a	4th main road 208 (SFS)		3	2.83	0.15	0.10	0.13		
	5.03a	4th main road 208 (SFS)		4	2.83	0.15	0.10	0.17		
	5.04	1st cross connecting 2nd main		2	2.83	0.15	0.10	0.08		
	5.05	1st main road 208 (SFS)		2	2.83	0.15	0.10	0.08		
	5.06a	Road connecting 1st main and 3rd main road beside #137		3	2.83	0.15	0.10	0.13		
	5.07a	Little Elly School to Amman International School		1	2.83	0.15	0.10	0.04		
	5.07b	Little Elly School to Amman International School		1	2.83	0.15	0.10	0.04		
	2.17	3rd cross road AMS Layout		4.00	2.83	0.15	0.10	0.17		
							Total	0.85	7,273.72	6,166.66
18	Page No.136 Item No.17.1	KSRRB M100-1 Loading and Unloading of Stone Boulder I Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 :Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	cum							
		For Road Excavation						1,398.72		
		For Dismantling of BT, Granular layers						9,860.55		
		Dismantling of Masonry,						17.80		
		Dismantling of Kerbs						52.99		
							Total	11,330.07	60.42	684,562.57
19	Page No.136 Item No.17.4	KSRRB M100-4.1: Cost of Haulage Excluding loading and Unloading MORTH -100/ Chapter 1 Case-1: Surface Road								
		PWP &IWTD, South Zone, SR:2018-19	t.km							
		For Road Excavation						21,484.40		
		For Dismantling of BT, Granular layers						153,824.58		
		Dismantling of Masonry,						277.68		
		Dismantling of Kerbs						826.68		
							Total	176,413.33	2.12	373,996.26
		Footpath Improvements								
20	Page No.254 Item No.34.1	KSRRB M2900-1: Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Below Kerb Stone								
	5.06a	Road connecting 1st main and 3rd main road beside #137	80%	2.00	144.00	0.20	0.10	4.61		
	5.06b	Road connecting 1st main and 3rd main road beside #137	80%	2.00	50.00	0.20	0.10	1.60		
	5.06c	Road connecting 1st main and 3rd main road beside #137	80%	2.00	130.00	0.20	0.10	4.16		
	1.04	3rd cross road Venugopal Layout	80%	2.00	132.00	0.20	0.10	4.22		
							Total	14.59	4,479.56	65,365.74
21	Page No.27 Item No.5.30	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.								
		PWP &IWTD, South Zone, SR:2018-19	No							
	5.06a	Road connecting 1st main and 3rd main road beside #137	80%	2.00	144.00			512.00		
	5.06b	Road connecting 1st main and 3rd main road beside #137	80%	2.00	50.00			177.78		
	5.06c	Road connecting 1st main and 3rd main road beside #137	80%	2.00	130.00			462.22		
	1.04	3rd cross road Venugopal Layout	85%	2.00	132.00			469.33		
							Total	1,621.33	432.48	701,194.24
22	Page No.270 Item No.37.57	Removing and resetting of kerb stones								
		PWP &IWTD, South Zone, SR:2018-19	m					52.80		
	1.04	3rd cross road Venugopal Layout	20%	2.00	132.00					
							Total	52.80	104.94	5,540.83

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
23	Page No.180. Item No.24.1	KSRRB 800-1: Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	5.06a	Road connecting 1st main and 3rd main road beside #137	80%	200%	144.00	0.27		61.06		
	5.06b	Road connecting 1st main and 3rd main road beside #137	80%	200%	50.00	0.27		21.20		
	5.06c	Road connecting 1st main and 3rd main road beside #137	80%	200%	130.00	0.27		55.12		
	1.04	3rd cross road Venugopal Layout	100%	2.00	132.00	0.27		69.96		
							Total	207.34	84.80	17,582.09
24	Page No.147. Item No.19.66	KSRRB M300-59.2: Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment I subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment I subgrade including HOM construction, labour etc., complete as per specifications. MORTH Specification No. 305.3.4								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	5.06a	Road connecting 1st main and 3rd main road beside #137	80%	2.00	144.00	0.50		115.20		
	5.06b	Road connecting 1st main and 3rd main road beside #137	80%	2.00	50.00	0.75		60.00		
	5.06c	Road connecting 1st main and 3rd main road beside #137	80%	2.00	130.00	0.75		156.00		
	1.04	3rd cross road Venugopal Layout		2.00	132.00	0.75		198.00		
							Total	529.20	24.38	12,901.90
25	Page No. 155. Item No.20.18	KSRRB M450-17: Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Paver Blocks								
	5.06a	Road connecting 1st main and 3rd main road beside #137	80%	2.00	144.00	0.50	0.20	23.04		
	5.06b	Road connecting 1st main and 3rd main road beside #137	80%	2.00	50.00	0.75	0.20	15.00		
	5.06c	Road connecting 1st main and 3rd main road beside #137	80%	2.00	130.00	0.75	0.20	39.00		
	1.04	3rd cross road Venugopal Layout		2.00	132.00	0.75	0.20	39.60		
							Total	116.64	2,001.28	233,429.30
26	Page No.103 Item No.14.6	KSRB 14.6-1 : Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	5.06a	Road connecting 1st main and 3rd main road beside #137	80%	2	144.00	0.50		115.20		
	5.06b	Road connecting 1st main and 3rd main road beside #137	80%	2	50.00	0.75		60.00		
	5.06c	Road connecting 1st main and 3rd main road beside #137	80%	2	130.00	0.75		156.00		
	1.04	3rd cross road Venugopal Layout		2.00	132.00	0.75		198.00		
							Total	529.20	1,116.18	590,682.46
27	Page No.270 Item No.37.56	Dismanding / Removing and resetting of footpath slab, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications. as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.04	3rd cross road Venugopal Layout	50%	2.00	132.00	1.10		145.20		
	3.02	2nd main road AMS Extension	65%	2.00	172.00	1.10		245.96		
	3.05	Beside Arohana Stationaries to Vrindhavan Apartments	60%	2.00	100.00	1.10		132.00		
	3.07	Vidyaranyapura 1st main road AMS Extension	65%	2.00	160.00	1.10		257.40		
	3.08	5th A main road AMS Extension	55%	2.00	160.00	1.10		193.60		
	2.18	4th B main road AMS Layout	70%	2.00	155.00	1.10		238.70		
	2.17	3rd cross road AMS Layout	65%	2.00	350.00	1.10		500.50		
							Total	1,713.36	208.82	357,783.84
		Drain Improvements								

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yelahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
28	Page No.143 Item No.19.1	KSRRB 300-1 Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications MORTH I Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Desilting								
	5.04	1st cross connecting 2nd main		2.00	40.00	0.45	0.20	7.20		
	5.06a	Road connecting 1st main and 3rd main road beside #137		2.00	144.00	0.45	0.20	25.92		
	5.06b	Road connecting 1st main and 3rd main road beside #137		2.00	50.00	0.45	0.20	9.00		
	5.06c	Road connecting 1st main and 3rd main road beside #137		2.00	130.00	0.45	0.20	23.40		
	5.07a	Little Elly School to Amman International School		2.00	50.00	0.45	0.20	9.00		
	5.07b	Little Elly School to Amman International School		2.00	-	0.45	0.20	-		
	1.04	3rd cross road Vanajgopal Layout		2.00	132.00	0.45	0.15	17.82		
	3.02	2nd main road AMS Extension		2.00	172.00	0.45	0.20	30.96		
	3.05	Beside Arohana Stationaries to Vrindhavan Apartments		2.00	100.00	0.45	0.20	18.00		
	3.07	Vidyaranyapura 1st main road AMS Extension		2.00	180.00	0.45	0.20	32.40		
	3.08	5th A main road AMS Extension		2.00	160.00	0.45	0.20	28.80		
	3.11	2nd A main road AMS Extension		2.00	120.00	0.45	0.20	21.60		
	2.18	4th B main road AMS Layout		2.00	155.00	0.45	0.15	20.93		
	2.17	3rd cross road AMS Layout		2.00	350.00	0.45	0.15	47.25		
		For Cross culvert								
	5.01	3rd main road, 208 SFS		1	8.00	1.50	1.00	12.00		
	5.05	1st main road 208 (SFS)		1	8.50	1.50	1.00	12.75		
	5.06a	Road connecting 1st main and 3rd main road beside #137		1	10.00	1.50	1.00	15.00		
	5.06b	Road connecting 1st main and 3rd main road beside #137		1	10.00	1.50	1.00	15.00		
	5.06c	Road connecting 1st main and 3rd main road beside #137		1	10.00	1.50	1.00	15.00		
		50% reduction for Culvert opening						(34.88)		
							Total	**327.15**	**137.80**	**45,081.27**
29	Page No.254 Item No.34.1	KSRRB M2900-1 Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Cross culvert								
	5.01	3rd main road, 208 SFS		1.00	8.00	1.50	0.10	1.20		
	5.05	1st main road 208 (SFS)		1.00	8.50	1.50	0.10	1.28		
	5.06a	Road connecting 1st main and 3rd main road beside #137		1.00	10.00	1.50	0.10	1.50		
	5.06b	Road connecting 1st main and 3rd main road beside #137		1.00	10.00	1.50	0.10	1.50		
	5.06c	Road connecting 1st main and 3rd main road beside #137		1.00	10.00	1.50	0.10	1.50		
							Total	**6.98**	**4,479.56**	**31,244.93**
30	Page No.229 Item No.28.8.2	KSRRB M2200-6 Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification MORTH Specification No.1600 & 2200								
		PWP &IWTD, South Zone, SR:2018-19	Tonns							
		For Cross culvert								
	5.01	3rd main road, 208 SFS			1.20	@90 Kg/Cum Concrete		0.11		
	5.05	1st main road 208 (SFS)			1.28	@90 Kg/Cum Concrete		0.11		
	5.06a	Road connecting 1st main and 3rd main road beside #137			1.50	@90 Kg/Cum Concrete		0.14		
	5.06b	Road connecting 1st main and 3rd main road beside #137			1.50	@90 Kg/Cum Concrete		0.14		
	5.06c	Road connecting 1st main and 3rd main road beside #137			1.50	@90 Kg/Cum Concrete		0.14		
							Total	**0.63**	**72,326.98**	**45,403.26**
31	Page No.270 Item No.37.59.2	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200 including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Cross culvert								
		Culvert Bottom slab								

Detailed Quantity Estimate for Road and allied Works

BBMP Division: Yalahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
	5.01	3rd main road, 208 SFS		1	8.00	1.50	0.20	2.40		
	5.05	1st main road 208 (SFS)		1	8.50	1.50	0.20	2.55		
	5.06a	Road connecting 1st main and 3rd main road beside #137		1	10.00	1.50	0.20	3.00		
	5.06b	Road connecting 1st main and 3rd main road beside #137		1	10.00	1.50	0.20	3.00		
	5.06c	Road connecting 1st main and 3rd main road beside #137		1	10.00	1.50	0.20	3.00		
	3.02	2nd main road AMS Extension		1	6.50	1.50	0.20	1.95		
		Culvert side walls								
	5.01	3rd main road, 208 SFS		2	8.00	0.20	0.90	2.88		
	5.05	1st main road 208 (SFS)		2	8.50	0.20	0.90	3.06		
	5.06a	Road connecting 1st main and 3rd main road beside #137		2	10.00	0.20	0.90	3.60		
	5.06b	Road connecting 1st main and 3rd main road beside #137		2	10.00	0.20	0.90	3.60		
	5.06c	Road connecting 1st main and 3rd main road beside #137		2	10.00	0.20	0.90	3.60		
	3.02	2nd main road AMS Extension		2	6.50	0.20	0.90	2.34		
								Total	**34.98**	**7,070.20**	**247,315.60**
32	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 100mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.04	3rd cross road Venugopal Layout	40%	2.00	132.00	1.10		116.16		
	3.02	2nd main road AMS Extension	10%	2.00	172.00	1.00		34.40		
	3.05	Beside Archana Stationaries to Vrindhavan Apartments	10%	2.00	100.00	1.00		20.00		
	3.07	Vidyaranyapura 1st main road AMS Extension	10%	2.00	180.00	0.90		32.40		
	3.08	5th A main road AMS Extension	10%	2.00	160.00	0.65		20.80		
	3.11	2nd A main road AMS Extension	10%	2.00	120.00	0.90		21.60		
	2.18	4th B main road AMS Layout	10%	2.00	155.00	1.00		31.00		
	2.17	3rd cross road AMS Layout	10%	2.00	350.00	1.00		70.00		
								Total	**346.36**	**2,337.00**	**809,443.32**
33	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	m							
	5.01	3rd main road, 208 SFS		1	8.00	1.50		12.00		
	5.06a	Road connecting 1st main and 3rd main road beside #137		1	10.00	1.50		15.00		
	5.06b	Road connecting 1st main and 3rd main road beside #137		1	10.00	1.50		15.00		
	5.06c	Road connecting 1st main and 3rd main road beside #137		1	10.00	1.50		15.00		
	3.02	2nd main road AMS Extension		1	6.50	1.50		9.75		
								Total	**66.75**	**5,418.00**	**361,651.50**
34	Page No.27 Item No.5.33	Removing & Refixing stone slabs of drains and pointing in C.M (1:3)								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.04	3rd cross road Venugopal Layout	5%	1.00	132.00	0.90		5.94		
	3.02	2nd main road AMS Extension	3%	1.00	172.00	0.90		4.64		
	3.05	Beside Archana Stationaries to Vrindhavan Apartments	3%	1.00	100.00	0.90		2.70		
	3.07	Vidyaranyapura 1st main road AMS Extension	3%	1.00	180.00	0.90		4.86		
	3.08	5th A main road AMS Extension	3%	1.00	160.00	0.90		4.32		
	2.18	4th B main road AMS Layout	5%	1.00	155.00	0.90		6.98		
	2.17	3rd cross road AMS Layout	5%	1.00	350.00	0.90		15.75		
								Total	**45.19**	**105.00**	**4,744.85**
		Dismantling and miscellaneous Items								
35	Page No.139 Item No 18.26	KSRR® MQ00-15.1: Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications. a) Dismantling Stone Masonry A. Rubble Stone masonry in lime mortar MORTH Specification No. 202								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Culverts								
	5.01	3rd main road, 208 SFS		1.00	8.00	0.40	1.00	3.20		
	5.06a	Road connecting 1st main and 3rd main road beside #137		1.00	10.00	0.40	1.00	4.00		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs.
	5.06b	Road connecting 1st main and 3rd main road beside #137		1.00	10.00	0.40	1.00	4.00		
	5.06c	Road connecting 1st main and 3rd main road beside #137		1.00	10.00	0.40	1.00	4.00		
	3.02	2nd main road AMS Extension		1.00	6.50	0.40	1.00	2.80		
							Total	17.80	306.34	5,452.85
36	Page No.141 Item No.18.49	KSRRB M200-26. Dismantling Kerb stone by manual means and disposal of dismantled materials with all lifts and complete as per specifications. MORTH Specification No. 202								
		PWP &IWTD, South Zone, SR 2018-19	m							
	5.04	1st cross connecting 2nd main	80%	2.00	40.00			64.00		
	5.06a	Road connecting 1st main and 3rd main road beside #137	80%	2.00	144.00			230.40		
	5.06b	Road connecting 1st main and 3rd main road beside #137	80%	2.00	50.00			80.00		
	5.06c	Road connecting 1st main and 3rd main road beside #137	80%	2.00	130.00			208.00		
	5.07a	Little Elly School to Amman International School	80%	2.00	50.00			80.00		
							Total	662.40	12.72	8,425.73

Total Construction Cost	16,800,847.86
GST 12%	2,016,101.74
Design Report,Proof Checking & PMC Amount	336,016.96
Tender Premium 5%	840,042.39
Sub Total	19,993,008.96
Miscellaneous & Rounding Off	6,991.04
Grand Total	20,000,000.000

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted is based on the PWD SR Bangalore Circle for year 2018-19
4. The provisions made in the estimate are necessary and essential.

For M/s Infra Support Engineering Consultants Pvt Ltd

Assistant Engineer
Yalahanka Division, BBMP

Assistant Executive Engineer

Executive Engineer
Yalahanka Division, BBMP

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ಯಲಹಂಕ ಉಪವಿಭಾಗ, ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

WORK NO 06: of Package 02
Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		Carriageway Improvements								
1	Page No.145 Item No.19.55	KSRRB 300-49: Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications MORTH / Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	2.13	1st main road AMS Layout		1.00	200.00	2.00		400.00		
	2.19	4th cross road AMS Layout		1.00	280.00	2.00		560.00		
	2.17	3rd cross road AMS Layout		0.15	350.00	2.00		105.00		
							Total	1,065.00	95.40	1,01,601.00
2	Page No. 146, Item No.19.51	KSRRB 300-45: Scarifying stone metal crust 50mm to 100mm thick with pick axes along with premix carpet / surface dressing and stacking of old serviceable materials by manual means including cost of all labour charges complete as per specifications MORTH / Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	2.13	1st main road AMS Layout		1.00	200.00	9.50		1,900.00		
	2.19	4th cross road AMS Layout		1.00	280.00	5.50		1,540.00		
	2.17	3rd cross road AMS Layout		0.55	350.00	5.50		1,058.75		
							Total	4,498.75	84.80	3,81,494.00
3	Page No.147 Item No.19.66	KSRRB M300-59.2: Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment / subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment / subgrade including HOM construction, labour etc., complete as per specifications MORTH Specification No. 305.3.4								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	2.13	1st main road AMS Layout		1	200.00	9.50		1,900.00		
	2.19	4th cross road AMS Layout		1	280.00	5.50		1,540.00		
							Total	3,440.00	24.38	83,867.20
4	Page No.143 Item No.19.14	KSRRB M300-14: Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	2.13	1st main road AMS Layout		1	200.00	9.50	0.23	427.50		
	2.19	4th cross road AMS Layout		1	280.00	5.50	0.23	346.50		
							Total	774.00	43.46	33,638.04
5	Page No.144 Item No.19.20	KSRRB M300-19: Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications. MORTH Specification No. 301								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	2.13	1st main road AMS Layout		1		427.50		427.50		
	2.19	4th cross road AMS Layout		1		346.50		346.50		
							Total	774.00	34.98	27,074.52
6	Page No.153 Item No.20.6	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	2.13	1st main road AMS Layout		1	200.00	9.50	0.15	285.00		
	2.19	4th cross road AMS Layout		1	280.00	5.50	0.15	231.00		
							Total	516.00	1,855.00	9,57,180.00

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yelahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
7	Page No. 155, Item No.20.18	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	2.13	1st main road AMS Layout		1	200.00	9.50	0.23	427.50		
	2.19	4th cross road AMS Layout		1	280.00	5.50	0.23	346.50		
		For Bell mouth improvement		0	8.00	4.00	0.08	-		
							Total	774.00	2,001.28	15,48,990.72
8	Page No.158, Item No.21.2	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	6.01	3rd cross road Srigandha Layout		1	230.00	4.50		1,035.00		
	6.02	1st cross road Srigandha Layout		1	100.00	3.50		350.00		
	6.03	2nd cross road Srigandha Layout		1	81.00	5.00		405.00		
	6.04	Road connecting 1st cross and 3rd cross road Srigandha Layout		1	55.00	5.00		275.00		
							Total	2,065.00	5.30	10,944.50
9	Page No.158, Item No.21.6	KSRRB M500-6. Providing and applying primar coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg per sqm using mechanical means complete as per specifications. MORTH Specification No. 502.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	2.13	1st main road AMS Layout		1.00	200.00	9.50		1,900.00		
	2.19	4th cross road AMS Layout		1.00	280.00	5.50		1,540.00		
							Total	3,440.00	33.92	1,16,684.80
10	Page No.158, Item No.21.7	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	6.01	3rd cross road Srigandha Layout		1	230.00	4.50		1,035.00		
	6.02	1st cross road Srigandha Layout		1	100.00	3.50		350.00		
	6.03	2nd cross road Srigandha Layout		1	81.00	5.00		405.00		
	6.04	Road connecting 1st cross and 3rd cross road Srigandha Layout		1	55.00	5.00		275.00		
	2.13	1st main road AMS Layout		2	200.00	9.50		3,800.00		
	2.19	4th cross road AMS Layout		2	280.00	5.50		3,080.00		
		For Bell mouth improvement		3	8.00	4.00		96.00		
							Total	9,041.00	12.72	1,15,001.52
11	Page No.160, Item No.21.17.2	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	2.13	1st main road AMS Layout		1	200.00	9.50	0.05	95.00		
	2.19	4th cross road AMS Layout		1	280.00	5.50	0.05	77.00		
							Total	172.00	7,620.34	13,10,698.48
12	Page No. 171, Item No.21.78.12	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% ofVG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	6.01	3rd cross road Srigandha Layout		1	230.00	4.50	0.04	41.40		
	6.02	1st cross road Srigandha Layout		1	100.00	3.50	0.04	14.00		
	6.03	2nd cross road Srigandha Layout		1	81.00	5.00	0.04	16.20		
	6.04	Road connecting 1st cross and 3rd cross road Srigandha Layout		1	55.00	5.00	0.04	11.00		
	2.13	1st main road AMS Layout		1	200.00	9.50	0.03	57.00		
	2.19	4th cross road AMS Layout		1	280.00	5.50	0.03	46.20		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yelahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		For Bell mouth improvement		4	8.00	4.00	0.04	5.12		
							Total	190.92	8,699.42	16,60,893.27
13	Page No.187 Item No.24.41	KSRRB M800 Road markers/Road stud: KSRRB M800-35: Supply and Installion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 - DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer with 2 years warranty for the reflectivity from the orignal manufacturer is mandatory along with necessary test certification								
		PWP &IWTD, South Zone, SR:2018-19	Nos					9.00		
	6.01	3rd cross road Srigandha Layout		2	4.50			7.00		
	6.02	1st cross road Srigandha Layout		2	3.50			5.00		
	6.03	2nd cross road Srigandha Layout		1	5.00			5.00		
	6.04	Road connecting 1st cross and 3rd cross road Srigandha Layout		1	5.00			19.00		
	2.13	1st main road AMS Layout		2	9.50			11.00		
	2.19	4th cross road AMS Layout		2	5.50			56.00	357.22	20,004.32
							Total			
14	Page No.182 Item No.24.15	KSRRB M800-13: Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
		Edge Line								
	6.01	3rd cross road Srigandha Layout		2	230.00	0.15		69.00		
	6.02	1st cross road Srigandha Layout		2	100.00	0.15		30.00		
	6.03	2nd cross road Srigandha Layout		2	81.00	0.15		24.30		
	6.04	Road connecting 1st cross and 3rd cross road Srigandha Layout		2	55.00	0.15		16.50		
	2.13	1st main road AMS Layout	Centre	1	200.00	0.10		6.67		
	2.19	4th cross road AMS Layout	Centre	1	280.00	0.10		9.33		
	2.13	1st main road AMS Layout	Edge	2	200.00	0.15		60.00		
	2.19	4th cross road AMS Layout	Edge	2	280.00	0.15		84.00		
							Total	299.80	454.74	1,36,331.05
15	Page No.190 Item No.24.59	Supply and fixing of Retro Reflective Single Arrow Road Name Signboard of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956- 09 & as per IRC 67-2012 forfull back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete, as per direction of engineer incharge of work clause 8.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 8.7 of IRC 67-2012 including outdoor								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	6.01	3rd cross road Srigandha Layout		1	1.60	0.90		1.44		
	6.02	1st cross road Srigandha Layout		1	1.60	0.90		1.44		
	6.03	2nd cross road Srigandha Layout		1	1.60	0.90		1.44		
	6.04	Road connecting 1st cross and 3rd cross road Srigandha Layout		1	1.60	0.90		1.44		
	2.13	1st main road AMS Layout		1	1.60	0.90		1.44		
	2.19	4th cross road AMS Layout		1	1.60	0.90		1.44		
							Total	8.64	14,094.82	1,21,779.24
16	Item No.23 KUWS&DB 2018-19	Supply and fixing of medium duty SFRC Frame and Cover confirming to IS 12592 (part-I)-1988 and IS 12592 (part-II)-1991 with latest amendment including cuting slabs to the required size for the opening and fixing the cover in CC 1:2:4 and CM 1:3 plastering 20mm thick to all exposed faces, curing for 10 days with all lead and lift etc. complete. -Do heavy								

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yelahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		KUWS&DB SR 2018-19	No.							
	6.01	3rd cross road Srigandha Layout		2				2.00		
	6.04	Road connecting 1st cross and 3rd cross road Srigandha Layout		1				1.00		
	2.13	1st main road AMS Layout		4				4.00		
	2.19	4th cross road AMS Layout		1				1.00		
							Total	8.00	2,203.74	17,629.92
16	Page No.270 Item No.37.59.1	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200 including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Manhole Raising								
	6.01	3rd cross road Srigandha Layout		2	2.83	0.15	0.10	0.08		
	6.04	Road connecting 1st cross and 3rd cross road Srigandha Layout		1	2.83	0.15	0.10	0.04		
	2.13	1st main road AMS Layout		4	2.83	0.15	0.10	0.17		
	2.19	4th cross road AMS Layout		1	2.83	0.15	0.10	0.04		
							Total	0.34	7,273.72	2,466.66
17	Page No.136 Item No.17.1	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kankar / Moorum. KSRRB M100-1 Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	cum					774.00		
		For Road Excavation						5,563.75		
		For Dismantling of BT, Granular layers						10.40		
		Dismantling of Masonry.					Total	6,348.15	60.42	3,83,555.22
18	Page No.136 Item No.17.4	KSRRB M100-4.1 Cost of Haulage Excluding loading and Unloading MORTH -100/ Chapter 1 Case-1: Surface Road								
		PWP &IWTD, South Zone, SR:2018-19	t.km					11,868.64		
		For Road Excavation						86,794.50		
		For Dismantling of BT, Granular layers						182.24		
		Dismantling of Masonry.					Total	98,845.38	2.12	2,09,552.21
		Footpath Improvements								
19	Page No.270 Item No.37.56	Dismantling / Removing and resetting of footpath slab, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications as directed by the Engineer,with all load and lift etc. complete as per specifications complete as per specifications								
		PWP &IWTD, South Zone, SR:2018-19	Sqm					224.25		
	6.01	3rd cross road Srigandha Layout	65%	1.50	230.00	1.00		150.00		
	6.02	1st cross road Srigandha Layout	75%	2.00	100.00	1.00		105.30		
	6.03	2nd cross road Srigandha Layout	65%	2.00	81.00	1.00		77.00		
	6.04	Road connecting 1st cross and 3rd cross road Srigandha Layout	70%	2.00	55.00	1.00		308.00		
	2.13	1st main road AMS Layout	70%	2.00	200.00	1.10		369.60		
	2.19	4th cross road AMS Layout	60%	2.00	280.00	1.10	Total	1,234.15	208.82	2,57,715.20
		Drain Improvements								
20	Page No.143 Item No.19.1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Drain Work								
	2.13	1st main road AMS Layout		2	200.00	0.45	0.15	27.00		
	2.19	4th cross road AMS Layout		2	280.00	0.45	0.15	37.80		
		For Cross culvert								
	6.01	3rd cross road Srigandha Layout		2	5.00	1.50	0.80	12.00		
	6.02	1st cross road Srigandha Layout		2	3.50	1.50	0.80	8.40		
	6.03	2nd cross road Srigandha Layout		1	5.00	1.50	0.80	6.00		
	6.04	Road connecting 1st cross and 3rd cross road Srigandha Layout		1	5.00	1.50	0.80	6.00		
		Culvert opening						(16.20)		
							Total	81.00	137.80	11,161.80

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
21	Page No.254 Item No.34.1	KSRRB M2900-1 Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 403								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Cross culvert								
	6.01	3rd cross road Srigandha Layout		2.00	5.00	1.50	0.10	1.50		
	6.02	1st cross road Srigandha Layout		2.00	3.50	1.50	0.10	1.05		
	6.03	2nd cross road Srigandha Layout		1.00	5.00	1.50	0.10	0.75		
	6.04	Road connecting 1st cross and 3rd cross road Srigandha Layout		1.00	5.00	1.50	0.10	0.75		
							Total	4.05	4,479.56	18,142.22
22	Page No.229 Item No.28.8.2	KSRRB M2200-6 Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200								
		PWP &IWTD, South Zone, SR:2018-19	Tonns							
		For Cross culvert								
	6.01	3rd cross road Srigandha Layout			1.50	@90 Kg/Cum Concrete		0.14		
	6.02	1st cross road Srigandha Layout			1.05	@90 Kg/Cum Concrete		0.09		
	6.03	2nd cross road Srigandha Layout			0.75	@90 Kg/Cum Concrete		0.07		
	6.04	Road connecting 1st cross and 3rd cross road Srigandha Layout			0.75	@90 Kg/Cum Concrete		0.07		
							Total	0.36	72,326.98	26,363.18
23	Page No.270 Item No.37.59.2	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200, including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Cross culvert								
		Culvert Bottom slab								
	6.01	3rd cross road Srigandha Layout		2	5.00	1.50	0.20	3.00		
	6.02	1st cross road Srigandha Layout		2	3.50	1.50	0.20	2.10		
	6.03	2nd cross road Srigandha Layout		1	5.00	1.50	0.20	1.50		
	6.04	Road connecting 1st cross and 3rd cross road Srigandha Layout		1	5.00	1.50	0.20	1.50		
		Culvert side walls								
	6.01	3rd cross road Srigandha Layout		4	5.00	0.20	0.90	3.60		
	6.02	1st cross road Srigandha Layout		4	3.50	0.20	0.90	2.52		
	6.03	2nd cross road Srigandha Layout		2	5.00	0.20	0.90	1.80		
	6.04	Road connecting 1st cross and 3rd cross road Srigandha Layout		2	5.00	0.20	0.90	1.80		
							Total	17.82	7,070.20	1,25,990.96
24	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 100mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	6.01	3rd cross road Srigandha Layout	25%	1.5	230.00	0.65		56.06		
	6.02	1st cross road Srigandha Layout	15%	2	100.00	0.65		19.50		
	6.03	2nd cross road Srigandha Layout	25%	2	81.00	0.65		26.33		
	6.04	Road connecting 1st cross and 3rd cross road Srigandha Layout	20%	2	55.00	0.65		14.30		
	2.13	1st main road AMS Layout	10%	2.00	200.00	1.00		40.00		
	2.19	4th cross road AMS Layout	10%	2.00	280.00	1.00		56.00		
							Total	212.19	2,337.00	4,95,882.19
25	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	6.01	3rd cross road Srigandha Layout		2	5.00	1.50		15.00		
	6.02	1st cross road Srigandha Layout		2	3.50	1.50		10.50		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	6.03	2nd cross road Srigandha Layout		1	5.00	1.50		7.50		
	6.04	Road connecting 1st cross and 3rd cross road Srigandha Layout		1	5.00	1.50		7.50		
							Total	40.50	5,418.00	2,19,429.00
26	Page No.27, Item No.5.33	Removing & Refixing stone slabs of drains and pointing in C. M (1 :3)								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	6.01	3rd cross road Srigandha Layout	3%	1	230.00	1.10		7.59		
	6.02	1st cross road Srigandha Layout	3%	1	100.00	1.10		3.30		
	6.03	2nd cross road Srigandha Layout	3%	1	81.00	1.10		2.67		
	6.04	Road connecting 1st cross and 3rd cross road Srigandha Layout	3%	1	55.00	1.10		1.82		
	2.13	1st main road AMS Layout	5%	1	200.00	0.90		9.00		
	2.19	4th cross road AMS Layout	5%	1	280.00	0.90		12.60		
							Total	36.98	105.00	3,882.69
		Dismantling and miscellaneous Items								
27	Page No.139 Item No 18.26	KSRRB M200-15.1: Dismanting of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications, as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications. iii) Dismantling Stone Masonry: A. Rebble Stone masonry in lime mortar.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Culverts								
	6.01	3rd cross road Srigandha Layout		2.00	4.50	0.40	1.00	3.60		
	6.02	1st cross road Srigandha Layout		2.00	3.50	0.40	1.00	2.80		
	6.03	2nd cross road Srigandha Layout		1.00	5.00	0.40	1.00	2.00		
	6.04	Road connecting 1st cross and 3rd cross road Srigandha Layout		1.00	5.00	0.40	1.00	2.00		
							Total	10.40	306.34	3,185.94
									Total Construction cost	84,01,139.86
									GST 12%	10,08,136.78
									Design Report, Proof Checking & PMC Amount	1,68,022.80
									Tender Premium 5%	4,20,056.99
									Sub Total	99,97,356.00
									Miscellaneous & Round off	2,644.00
									Grand Total	1,00,00,000.00

Certificate:-

1. The workspot was inspected and work is found to be necessary
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits
3. The rates adopted is based on the PWD SR Bangalore Circle for year 2018-19
4. The provisions made in the estimate are necessary and essential.

For Infra Support Engineering Consultants Pvt. Ltd.

Asssitant Engineer, Yalahanka Division, BBMP

Assistant Executive Engineer, Yalahanka Division, BBMP

Executive Engineer, Yalahanka Division, BBMP

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WORK NO 07 : of Package 02
Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		Parking Area Improvements								
1	Page No.133 Item No.18.11	KSRRB 200-8. Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials, labour charges complete as per specifications MORT&H Chapter-2								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	7.04	S-HIG-C-1 side portion		1.00	25.50	8.00		204.00		
	7.06	OMKAR APPARTMENTS,NHG-C-6 side portion		1.00	10.00	7.10		71.00		
	7.09	PRASHANTHI NILAYA front portion		1.00	32.30	6.40		206.72		
	7.11	PRASHANTHI NILAYA left protion		1.00	19.20	3.40		65.28		
	7.20	SHG-D-01 side portion		1.00	11.00	7.50		82.50		
							Total	629.50	10.60	6,672.70
2	Page No.143 Item No.19.14	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	7.01	S-HIG-C-2 front portion		1	30.00	6.50	0.32	61.43		
	7.02	S-HIG-C-2 side portion		1	26.00	5.30	0.32	43.41		
	7.03	S-HIG-C-1 front portion		1	32.50	7.10	0.32	72.69		
	7.04	S-HIG-C-1 side portion		1	25.50	8.00	0.32	64.26		
	7.05	S-HIG-B-07		1	18.50	4.60	0.32	26.81		
	7.06	S-HIG-B-08		1	19.20	4.40	0.32	26.61		
	7.07	OMKAR APPARTMENTS,NHG-C-6 front portion		1	19.50	3.40	0.32	20.88		
	7.08	OMKAR APPARTMENTS,NHG-C-6 side portion		1	29.90	7.10	0.32	66.87		
	7.09	PRASHANTHI NILAYA front portion		1	32.30	6.40	0.32	65.12		
	7.10	PRASHANTHI NILAYA right portion		1	21.60	6.90	0.32	46.95		
	7.11	PRASHANTHI NILAYA left protion		1	19.20	3.40	0.32	20.56		
	7.12	SHG-D6		1	21.00	4.90	0.32	32.41		
	7.13	DECCAN HABITAT-SHG-D7		1	22.40	5.00	0.32	35.28		
	7.14	S-HIG-D8		1	30.30	5.00	0.32	47.72		
	7.15	SHG-D-9 frontportion		1	31.70	4.90	0.32	48.93		
	7.16	SHG-D-9 side portion		1	14.70	5.00	0.32	23.15		
	7.17	SHG-D10		1	29.00	4.10	0.32	37.45		
	7.18	SHG-D10 side portion		1	13.70	8.80	0.32	37.98		
	7.19	SHG-D-01 front portion		1	28.00	5.80	0.32	51.16		
	7.20	SHG-D-01 side portion		1	11.00	7.50	0.32	25.99		
	7.21	SHG-D-2 front portion		1	29.00	4.50	0.32	41.11		
	7.22	SHG-D-2 side portion		1	31.20	7.90	0.32	77.64		
	7.23	SHG-D4 front portion		1	22.20	5.10	0.32	35.66		
	7.24	SHG-D4 side portion		1	28.00	7.80	0.32	63.88		
	7.25	GREENVIEW-SHG-C9		1	32.10	7.00	0.32	70.78		
	7.26	OM SAI- SHG-C8		1	25.00	6.80	0.32	53.55		
	7.27	SHG C 07 Sapthagiri		1	31.00	6.00	0.32	58.59		
		Deduction for Sumps and Chambers		1	60.5548	1.00	0.32	(19.38)		
							Total	1,237.49	43.46	53,781.24
3	Page No.144 Item No.19.20	KSRRB M300-19. Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications, MORTH Specification No. 301								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	7.01	S-HIG-C-2 front portion		1	61.43			61.43		
	7.02	S-HIG-C-2 side portion		1	43.41			43.41		
	7.03	S-HIG-C-1 front portion		1	72.69			72.69		
	7.04	S-HIG-C-1 side portion		1	64.26			64.26		
	7.05	S-HIG-B-07		1	26.81			26.81		
	7.06	S-HIG-B-08		1	26.61			26.61		
	7.07	OMKAR APPARTMENTS,NHG-C-6 front portion		1	20.88			20.88		
	7.08	OMKAR APPARTMENTS,NHG-C-6 side portion		1	66.87			66.87		
	7.09	PRASHANTHI NILAYA front portion		1	65.12			65.12		
	7.10	PRASHANTHI NILAYA right portion		1	46.95			46.95		
	7.11	PRASHANTHI NILAYA left protion		1	20.56			20.56		
	7.12	SHG-D6		1	32.41			32.41		
	7.13	DECCAN HABITAT-SHG-D7		1	35.28			35.28		
	7.14	S-HIG-D8		1	47.72			47.72		
	7.15	SHG-D-9 frontportion		1	48.93			48.93		
	7.16	SHG-D-9 side portion		1	23.15			23.15		
	7.17	SHG-D10		1	37.45			37.45		
	7.18	SHG-D10 side portion		1	37.98			37.98		
	7.19	SHG-D-01 front portion		1	51.16			51.16		
	7.20	SHG-D-01 side portion		1	25.99			25.99		
	7.21	SHG-D-2 front portion		1	41.11			41.11		
	7.22	SHG-D-2 side portion		1	77.64			77.64		
	7.23	SHG-D4 front portion		1	35.66			35.66		
	7.24	SHG-D4 side portion		1	63.88			63.88		
	7.25	GREENVIEW-SHG-C9		1	70.78			70.78		
	7.26	OM SAI- SHG-C8		1	53.55			53.55		
	7.27	SHG C 07 Sapthagiri		1	58.59			58.59		
							Total	1,256.87	34.98	43,965.16

Detailed Quantity Estimate for Road and allied Works

BBMP Division: Yalahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
4	Page No 270 Item No.37.59.1	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200 including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone. SR:2018-19	Cum							
		For Confinement, Longitudinal								
	7.01	S-HIG-C-2 front portion								
	7.02	S-HIG-C-2 side portion		2	30.00	0.11	0.10	0.66		
	7.03	S-HIG-C-1 front portion		2	26.00	0.11	0.10	0.57		
	7.04	S-HIG-C-1 side portion		2	32.50	0.11	0.10	0.72		
	7.05	S-HIG-B-07		2	25.50	0.11	0.10	0.56		
	7.06	S-HIG-B-06		2	18.50	0.11	0.10	0.41		
	7.07	OMKAR APPARTMENTS,NHIG-C-6 front portion		2	19.20	0.11	0.10	0.42		
	7.08	OMKAR APPARTMENTS,NHIG-C-6 side portion		2	19.50	0.11	0.10	0.43		
	7.09	PRASHANTHI NILAYA front portion		2	29.90	0.11	0.10	0.66		
	7.10	PRASHANTHI NILAYA right portion		2	32.30	0.11	0.10	0.71		
	7.11	PRASHANTHI NILAYA left protion		2	21.60	0.11	0.10	0.48		
	7.12	SHIG-D6		2	19.20	0.11	0.10	0.42		
	7.13	DECCAN HABITAT-SHIG-D7		2	21.00	0.11	0.10	0.46		
	7.14	S-HIG-D8		2	22.40	0.11	0.10	0.49		
	7.15	SHIG-D-9 frontportion		2	30.30	0.11	0.10	0.67		
	7.16	SHIG-D-9 side portion		2	31.70	0.11	0.10	0.70		
	7.17	SHIG-D10		2	14.70	0.11	0.10	0.32		
	7.18	SHIG-D10 side portion		2	29.00	0.11	0.10	0.64		
	7.19	SHIG-D-01 front portion		2	13.70	0.11	0.10	0.30		
	7.20	SHIG-D-01 side portion		2	28.00	0.11	0.10	0.62		
	7.21	SHIG-D-2 front portion		2	11.00	0.11	0.10	0.24		
	7.22	SHIG-D-2 side portion		2	29.00	0.11	0.10	0.64		
	7.23	SHIG-D4 front portion		2	31.20	0.11	0.10	0.69		
	7.24	SHIG-D4 side portion		2	22.20	0.11	0.10	0.49		
	7.25	GREENVIEW-SHIG-C9		2	26.00	0.11	0.10	0.57		
	7.26	OM SAI- SHIG-C8		2	32.10	0.11	0.10	0.71		
	7.27	SHIG C 07 Sapthagiri		2	25.00	0.11	0.10	0.55		
		For Confinement, Transverse		2	31.00	0.11	0.10	0.68		
	7.01	S-HIG-C-2 front portion								
	7.02	S-HIG-C-2 side portion		3.00	8.50	0.11	0.10	0.21		
	7.03	S-HIG-C-1 front portion		2.00	5.30	0.11	0.10	0.12		
	7.04	S-HIG-C-1 side portion		3.00	7.10	0.11	0.10	0.23		
	7.05	S-HIG-B-07		2.00	8.00	0.11	0.10	0.18		
	7.06	S-HIG-B-06		2.00	4.60	0.11	0.10	0.10		
	7.07	OMKAR APPARTMENTS,NHIG-C-6 front portion		2.00	4.40	0.11	0.10	0.10		
	7.08	OMKAR APPARTMENTS,NHIG-C-6 side portion		2.00	3.40	0.11	0.10	0.07		
	7.09	PRASHANTHI NILAYA front portion		2.00	7.10	0.11	0.10	0.16		
	7.10	PRASHANTHI NILAYA right portion		3.50	8.40	0.11	0.10	0.21		
	7.11	PRASHANTHI NILAYA left protion		2.00	6.90	0.11	0.10	0.15		
	7.12	SHIG-D6		2.00	3.40	0.11	0.10	0.07		
	7.13	DECCAN HABITAT-SHIG-D7		2.00	4.90	0.11	0.10	0.11		
	7.14	S-HIG-D8		2.00	5.00	0.11	0.10	0.11		
	7.15	SHIG-D-9 frontportion		3.00	5.00	0.11	0.10	0.17		
	7.16	SHIG-D-9 side portion		3.00	4.90	0.11	0.10	0.16		
	7.17	SHIG-D10		1.00	5.00	0.11	0.10	0.06		
	7.18	SHIG-D10 side portion		2.00	4.10	0.11	0.10	0.09		
	7.19	SHIG-D-01 front portion		1.00	8.80	0.11	0.10	0.10		
	7.20	SHIG-D-01 side portion		2.00	5.80	0.11	0.10	0.13		
	7.21	SHIG-D-2 front portion		1.00	7.50	0.11	0.10	0.08		
	7.22	SHIG-D-2 side portion		2.00	4.50	0.11	0.10	0.10		
	7.23	SHIG-D4 front portion		3.00	7.90	0.11	0.10	0.26		
	7.24	SHIG-D4 side portion		2.00	5.10	0.11	0.10	0.11		
	7.25	GREENVIEW-SHIG-C9		2.00	7.80	0.11	0.10	0.17		
	7.26	OM SAI- SHIG-C8		3.00	7.00	0.11	0.10	0.23		
	7.27	SHIG C 07 Sapthagiri		2.00	6.80	0.11	0.10	0.15		
				3.00	6.00	0.11	0.10	0.20		
							Total	18.62	7,273.72	135,450.49
5	Page No.136 Item No.17.1	KSRRB M100-1 Loading and Unloading of Stone Boulder I Stone aggregates ISand/ Kanker J Moorum. KSRRB M100-1 :Placing tipper at loading point, loading with front end loader,dumping, turnang for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1								
		PWP &IWTD, South Zone, SR.2018-19	cum							
		For Road Excavation						1,237.49		
		Dismantling of Concrete						850.85		
							Total	2,088.34	60.42	126,177.39
6	Page No.135 Item No.17.4	KSRRB M100-4.1: Cost of Haulage Excluding loading and Unloading MORTH -100/ Chapter 1 Case-1: Surface Road								
		PWP &IWTD, South Zone, SR.2018-19	t.km							
		For Road Excavation						19,007.82		
		Dismantling of Concrete						13,273.26		
							Total	32,281.08	2.12	68,435.89

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
7	Page No.147, Item No.19.66	KSRRB M300-59.2: Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment I subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment I subgrade including HOM construction, labour etc. complete as per specifications. MORTH Specification No 305.3.4								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	7.01	S-HIG-C-2 front portion		1	30.00	6.50		195.00		
	7.02	S-HIG-C-2 side portion		1	26.00	5.30		137.80		
	7.03	S-HIG-C-1 front portion		1	32.50	7.10		230.75		
	7.04	S-HIG-C-1 side portion		1	25.50	8.00		204.00		
	7.05	S-HIG-B-07		1	18.50	4.60		85.10		
	7.06	S-HIG-B-06		1	19.20	4.40		84.48		
	7.07	OMKAR APPARTMENTS,NHIG-C-6 front portion		1	19.50	3.40		66.30		
	7.08	OMKAR APPARTMENTS,NHIG-C-6 side portion		1	29.90	7.10		212.29		
	7.09	PRASHANTHI NILAYA front portion		1	32.30	6.40		206.72		
	7.10	PRASHANTHI NILAYA right portion		1	21.60	6.90		149.04		
	7.11	PRASHANTHI NILAYA left protion		1	19.20	3.40		65.28		
	7.12	SHIG-D6		1	21.00	4.90		102.90		
	7.13	DECCAN HABITAT-SHIG-D7		1	22.40	5.00		112.00		
	7.14	S-HIG-D8		1	30.30	5.00		151.50		
	7.15	SHIG-D-9 frontportion		1	31.70	4.90		155.33		
	7.16	SHIG-D-9 side portion		1	14.70	5.00		73.50		
	7.17	SHIG-D10		1	29.00	4.10		118.90		
	7.18	SHIG-D10 side portion		1	13.70	8.80		120.56		
	7.19	SHIG-D-01 front portion		1	28.00	5.80		162.40		
	7.20	SHIG-D-01 side portion		1	11.00	7.50		82.50		
	7.21	SHIG-D-2 front portion		1	29.00	4.50		130.50		
	7.22	SHIG-D-2 side portion		1	31.20	7.90		246.48		
	7.23	SHIG-D4 front portion		1	22.20	5.10		113.22		
	7.24	SHIG-D4 side portion		1	26.00	7.80		202.80		
	7.25	GREENVIEW-SHIG-C9		1	32.10	7.00		224.70		
	7.26	OM SAI- SHIG-C8		1	25.00	6.80		170.00		
	7.27	SHIG C 07 Sapthagiri		1	31.00	6.00		186.00		
		Deduction for Sumps and Chambers		1	60.5548	1.00		(60.55)		
							Total	3,929.50	24.38	95,801.09
8	Page No. 155, Item No.20.18	KSRRB M405-17: Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Paver Blocks								
	7.01	S-HIG-C-2 front portion		1	30.00	6.50	0.20	39.00		
	7.02	S-HIG-C-2 side portion		1	26.00	5.30	0.20	27.56		
	7.03	S-HIG-C-1 front portion		1	32.50	7.10	0.20	46.15		
	7.04	S-HIG-C-1 side portion		1	25.50	8.00	0.20	40.80		
	7.05	S-HIG-B-07		1	18.50	4.60	0.20	17.02		
	7.06	S-HIG-B-06		1	19.20	4.40	0.20	16.90		
	7.07	OMKAR APPARTMENTS,NHIG-C-6 front portion		1	19.50	3.40	0.20	13.26		
	7.08	OMKAR APPARTMENTS,NHIG-C-6 side portion		1	29.90	7.10	0.20	42.46		
	7.09	PRASHANTHI NILAYA front portion		1	32.30	6.40	0.20	41.34		
	7.10	PRASHANTHI NILAYA right portion		1	21.60	6.90	0.20	29.81		
	7.11	PRASHANTHI NILAYA left protion		1	19.20	3.40	0.20	13.06		
	7.12	SHIG-D6		1	21.00	4.90	0.20	20.58		
	7.13	DECCAN HABITAT-SHIG-D7		1	22.40	5.00	0.20	22.40		
	7.14	S-HIG-D8		1	30.30	5.00	0.20	30.30		
	7.15	SHIG-D-9 frontportion		1	31.70	4.90	0.20	31.07		
	7.16	SHIG-D-9 side portion		1	14.70	5.00	0.20	14.70		
	7.17	SHIG-D10		1	29.00	4.10	0.20	23.78		
	7.18	SHIG-D10 side portion		1	13.70	8.80	0.20	24.11		
	7.19	SHIG-D-01 front portion		1	28.00	5.80	0.20	32.48		
	7.20	SHIG-D-01 side portion		1	11.00	7.50	0.20	16.50		
	7.21	SHIG-D-2 front portion		1	29.00	4.50	0.20	26.10		
	7.22	SHIG-D-2 side portion		1	31.20	7.90	0.20	49.30		
	7.23	SHIG-D4 front portion		1	22.20	5.10	0.20	22.64		
	7.24	SHIG-D4 side portion		1	26.00	7.80	0.20	40.56		
	7.25	GREENVIEW-SHIG-C9		1	32.10	7.00	0.20	44.94		
	7.26	OM SAI- SHIG-C8		1	25.00	6.80	0.20	34.00		
	7.27	SHIG C 07 Sapthagiri		1	31.00	6.00	0.20	37.20		
		Deduction for Sumps and Chambers		1	60.55	1.00	0.20	(12.11)		
							Total	785.90	2,001.28	1,572,804.03
9	Page No.103, Item No.14.6	KSRB 14.6-1 : Providing and laying heavy duty cobble stones 80mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	7.01	S-HIG-C-2 front portion		1	30.00	6.50		195.00		
	7.02	S-HIG-C-2 side portion		1	26.00	5.30		137.80		
	7.03	S-HIG-C-1 front portion		1	32.50	7.10		230.75		
	7.04	S-HIG-C-1 side portion		1	25.50	8.00		204.00		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	7.05	S-HIG-B-07		1	18.50	4.60		85.10		
	7.06	S-HIG-B-06		1	19.20	4.40		84.48		
	7.07	OMKAR APPARTMENTS,NHIG-C-8 front portion		1	19.50	3.40		66.30		
	7.08	OMKAR APPARTMENTS,NHIG-C-8 side portion		1	29.90	7.10		212.29		
	7.09	PRASHANTHI NILAYA front portion		1	32.30	6.40		206.72		
	7.10	PRASHANTHI NILAYA right portion		1	21.60	6.90		149.04		
	7.11	PRASHANTHI NILAYA left protion		1	19.20	3.40		65.28		
	7.12	SHIG-D6		1	21.00	4.90		102.90		
	7.13	DECCAN HABITAT-SHIG-D7		1	22.40	5.00		112.00		
	7.14	S-HIG-D8		1	30.30	5.00		151.50		
	7.15	SHIG-D-9 frontportion		1	31.70	4.90		155.33		
	7.16	SHIG-D-9 side portion		1	14.70	5.00		73.50		
	7.17	SHIG-D10		1	29.00	4.10		118.90		
	7.18	SHIG-D10 side portion		1	13.70	8.80		120.56		
	7.19	SHIG-D-01 front portion		1	28.00	5.80		162.40		
	7.20	SHIG-D-01 side portion		1	11.00	7.50		82.50		
	7.21	SHIG-D-2 front portion		1	29.00	4.50		130.50		
	7.22	SHIG-D-2 side portion		1	31.20	7.90		246.48		
	7.23	SHIG-D4 front portion		1	22.20	5.10		113.22		
	7.24	SHIG-D4 side portion		1	26.00	7.80		202.80		
	7.25	GREENVIEW-SHIG-C9		1	32.10	7.00		224.70		
	7.26	OM SAI- SHIG-C8		1	25.00	6.80		170.00		
	7.27	SHIG C 07 Sapthagiri		1	31.00	6.00		186.00		
		Deduction for Sumps and Chambers		1	60.55	1.00		(60.55)		
							Total	3,929.50	1,116.18	4,386,023.95
		Dismantling and miscellaneous items								
10	Page No.140, Item No.18.47	KSRR® M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials separately complete as per specifications. MORTH Specification No. 202								
		PWP &IWTD, Bangalore Circle, SOR 2018-19								
	7.01	S-HIG-C-2 front portion	Cum	1	5.00	5.00		25.00		
	7.03	S-HIG-C-1 front portion		1	30.00	2.00		60.00		
	7.05	S-HIG-B-07		1	18.50	4.50		83.25		
	7.06	S-HIG-B-06		1	19.00	4.00		76.00		
	7.07	OMKAR APPARTMENTS,NHIG-C-8 front portion		1	19.00	3.40		64.60		
	7.10	PRASHANTHI NILAYA right portion		1	10.00	7.00		70.00		
	7.13	DECCAN HABITAT-SHIG-D7		1	20.00	2.00		40.00		
	7.14	S-HIG-D8		1	10.00	2.00		20.00		
	7.15	SHIG-D-9 frontportion		1	15.00	1.00		15.00		
	7.17	SHIG-D10		1	28.00	4.00		112.00		
	7.21	SHIG-D-2 front portion		1	28.00	4.50		126.00		
	7.23	SHIG-D4 front portion		1	22.00	5.00		110.00		
	7.25	GREENVIEW-SHIG-C9		1	7.00	7.00		49.00		
							Total	850.85	952.94	810,809.00
								Total Construction cost		12,602,752.82
								GST 12%		1,512,330.34
								Design Report, Proof Checking & PMC Amount		252,055.06
								Tender Premium 5%		630,137.64
								Sub Total		14,997,273.85
								Miscellaneous & Round off		2,724.15
								Grand Total		15,000,000.00

Certificate :-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted is based on the PWD SR Bangalore Circle for year 2018-19
4. The provisions made in the estimate are necessary and essential

For Infra Spirit Engineering Consultants Pvt. Ltd. BANGALORE

Assistant Engineer, Yalahanka Division, BBMP

Assistant Executive Engineer, Yalahanka Division, BBMP

Executive Engineer, Yalahanka Division, BBMP

WORK NO 08 : of Package 02
Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		Parking Area Improvements								
1	Page No.138 Item No.18.11	KSRRB 200-8: Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials, labour charges complete as per specifications MORT&H Chapter-2								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	8.05	SMIG-A19-20		1.00	26.00	12.80		332.80		
	8.10	SMIG-A(2,3) front portion		1.00	12.60	11.30		142.38		
	8.11	SMIG-A(2,3) back portion		1.00	62.50	18.40		1,150.00		
							Total	1,625.18	10.60	17,226.91
2	Page No.143 Item No.19.14	KSRRB M300-14: Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications, MORTH Specification No.301								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	8.01	SLIG42, 43, 44		1	41.00	5.90	0.32	76.20		
	8.02	MIG-B 15		1	64.00	15.00	0.32	302.40		
	8.03	MIG B7		1	9.50	5.20	0.32	15.56		
	8.04	SMIG-A(17,16&18)		1	37.20	13.10	0.32	153.51		
	8.05	SMIG-A19-20		1	26.00	12.80	0.32	104.83		
	8.06	SMIG-A(13,14,15)		1	13.00	9.00	0.32	36.86		
	8.07	SLIG-(49-53)(17-21,33,34)		1	68.00	1.80	0.32	38.56		
	8.08	SLIG-(22-24)		1	34.40	4.70	0.32	50.93		
	8.09	SMIG-A-(4,5,6)		1	12.80	3.50	0.32	14.11		
	8.10	SMIG-A(2,3) front portion		1	12.60	11.30	0.32	44.85		
	8.11	SMIG-A(2,3) back portion		1	62.50	18.40	0.32	362.25		
		Deduction for Sumps and Chambers		1	173.615	1.00	0.32	(55.56)		
							Total	1,144.49	43.45	49,739.64
3	Page No.144 Item No.19.20	KSRRB M300-19: Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications, MORTH Specification No. 301								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	8.01	SLIG42, 43, 44		1	76.20			76.20		
	8.02	MIG-B 15		1	302.40			302.40		
	8.03	MIG B7		1	15.56			15.56		
	8.04	SMIG-A(17,16&18)		1	153.51			153.51		
	8.05	SMIG-A19-20		1	104.83			104.83		
	8.06	SMIG-A(13,14,15)		1	36.86			36.86		
	8.07	SLIG-(49-53)(17-21,33,34)		1	38.56			38.56		
	8.08	SLIG-(22-24)		1	50.93			50.93		
	8.09	SMIG-A-(4,5,6)		1	14.11			14.11		
	8.10	SMIG-A(2,3) front portion		1	44.85			44.85		
	8.11	SMIG-A(2,3) back portion		1	362.25			362.25		
							Total	1,200.05	34.98	41,977.72
4	Page No.270 Item No.37.59.1	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200, including cost of materials, labour, HOM complete as per specifications								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Confinement, Longitudinal								
	8.01	SLIG42, 43, 44		2	41.00	0.11	0.10	0.90		
	8.02	MIG-B 15		2	64.00	0.11	0.10	1.41		
	8.03	MIG B7		2	9.50	0.11	0.10	0.21		
	8.04	SMIG-A(17,16&18)		2	37.20	0.11	0.10	0.82		
	8.05	SMIG-A19-20		2	26.00	0.11	0.10	0.57		
	8.06	SMIG-A(13,14,15)		2	13.00	0.11	0.10	0.29		
	8.07	SLIG-(49-53)(17-21,33,34)		2	68.00	0.11	0.10	1.50		
	8.08	SLIG-(22-24)		2	34.40	0.11	0.10	0.76		
	8.09	SMIG-A-(4,5,6)		2	12.80	0.11	0.10	0.28		
	8.10	SMIG-A(2,3) front portion		2	12.60	0.11	0.10	0.28		
	8.11	SMIG-A(2,3) back portion		2	62.50	0.11	0.10	1.38		
		For Confinement, Transverse								
	8.01	SLIG42, 43, 44		3.00	5.90	0.11	0.10	0.19		
	8.02	MIG-B 15		5.00	15.00	0.11	0.10	0.83		
	8.03	MIG B7		1.00	5.20	0.11	0.10	0.06		
	8.04	SMIG-A(17,16&18)		3.00	13.10	0.11	0.10	0.43		
	8.05	SMIG-A19-20		2.00	12.80	0.11	0.10	0.28		
	8.06	SMIG-A(13,14,15)		1.00	9.00	0.11	0.10	0.10		
	8.07	SLIG-(49-53)(17-21,33,34)		5.00	1.80	0.11	0.10	0.10		
	8.08	SLIG-(22-24)		3.00	4.70	0.11	0.10	0.16		
	8.09	SMIG-A-(4,5,6)		1.00	3.50	0.11	0.10	0.04		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	8.10	SMIG-A(2,3) front portion		1.00	11.30	0.11	0.90	0.12		
	8.11	SMIG-A(2,3) back portion		5.00	18.40	0.11	0.90	1.01		
							Total	11.70	7,273.72	85,107.62
5	Page No.136 Item No.17.1	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	cum							
		For Road Excavation						1,144.49		
		Dismantling of Concrete						1,898.16		
							Total	3,042.65	60.42	1,83,837.06
6	Page No.136 Item No.17.4	KSRRB M100-4.1: Cost of Haulage Excluding loading and Unloading MORTH -100/ Chapter 1 Case-1: Surface Road								
		PWP &IWTD, South Zone, SR:2018-19	Lkm							
		For Road Excavation						17,579.40		
		Dismantling of Concrete						29,611.30		
							Total	47,190.70	2.12	1,00,044.28
7	Page No.147 Item No.19.66	KSRRB M300-59.2: Loosening, leveling and compacting original ground supporting embankment to facilitate placement of first layer of embankment I subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment I subgrade including HOM construction, labour etc., complete as per specifications. MORTH Specification No. 305.3.4								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	8.01	SLIG42, 43, 44		1	41.00	5.90		241.90		
	8.02	MIG-B 15		1	64.00	15.00		960.00		
	8.03	MIG B7		1	9.50	5.20		49.40		
	8.04	SMIG-A(17,16&18)		1	37.20	13.10		487.32		
	8.05	SMIG-A19-20		1	26.00	12.80		332.80		
	8.06	SMIG-A(13,14,15)		1	13.00	9.00		117.00		
	8.07	SLIG-(49-53)(17-21,33,34)		1	68.00	1.80		122.40		
	8.08	SLIG-(22-24)		1	34.40	4.70		161.68		
	8.09	SMIG-A-(4,5,6)		1	12.80	3.50		44.80		
	8.10	SMIG-A(2,3) front portion		1	12.60	11.30		142.38		
	8.11	SMIG-A(2,3) back portion		1	62.50	18.40		1,150.00		
		Deduction for Sumps and Chambers		1	173.615	1.00		(173.62)		
							Total	3,636.07	24.38	88,647.26
8	Page No 155 Item No.20.18	KSRRB M400-17: Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Paver Blocks								
	8.01	SLIG42, 43, 44		1	41.00	5.90	0.20	48.38		
	8.02	MIG-B 15		1	64.00	15.00	0.20	192.00		
	8.03	MIG B7		1	9.50	5.20	0.20	9.88		
	8.04	SMIG-A(17,16&18)		1	37.20	13.10	0.20	97.46		
	8.05	SMIG-A19-20		1	26.00	12.80	0.20	66.56		
	8.06	SMIG-A(13,14,15)		1	13.00	9.00	0.20	23.40		
	8.07	SLIG-(49-53)(17-21,33,34)		1	68.00	1.80	0.20	24.48		
	8.08	SLIG-(22-24)		1	34.40	4.70	0.20	32.34		
	8.09	SMIG-A-(4,5,6)		1	12.80	3.50	0.20	8.96		
	8.10	SMIG-A(2,3) front portion		1	12.60	11.30	0.20	28.48		
	8.11	SMIG-A(2,3) back portion		1	62.50	18.40	0.20	230.00		
		Deduction for Sumps and Chambers		1	173.62	1.00	0.20	(34.72)		
							Total	727.21	2,001.28	14,55,356.83
9	Page No 103 Item No.14.6	KSRB 14.6-1 : Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No: KBS								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	8.01	SLIG42, 43, 44		1	41.00	5.90		241.90		
	8.02	MIG-B 15		1	64.00	15.00		960.00		
	8.03	MIG B7		1	9.50	5.20		49.40		
	8.04	SMIG-A(17,16&18)		1	37.20	13.10		487.32		
	8.05	SMIG-A19-20		1	26.00	12.80		332.80		
	8.06	SMIG-A(13,14,15)		1	13.00	9.00		117.00		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

Sl. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	8.07	SLIG-(49-53)(17-21,33,34)		1	68.00	1.80		122.40		
	8.08	SLIG-(22-24)		1	34.40	4.70		161.68		
	8.09	SMIG-A-(4,5,6)		1	12.80	3.50		44.80		
	8.10	SMIG-A(2,3) front portion		1	12.60	11.30		142.38		
	8.11	SMIG-A(2,3) back portion		1	62.50	18.40		1,150.00		
		Deduction for Sumps and Chambers		1	173.62	1.00		(173.62)		
							Total	3,636.07	1,116.18	40,58,503.03
		Dismantling and miscellaneous items								
10	Page No.140, Item No.18.47	KSRRB M200-24 Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials separately complete as per specifications MORTH Specification No. 202								
		PWP &WTD, Bangalore Circle, SOR 2018-19								
	8.01	SLIG42, 43, 44	Cum	1	10.00	5.90		59.00		
	8.02	MIG-B 15		1	64.00	15.00		960.00		
	8.03	MIG B7		1	9.50	5.20		49.40		
	8.04	SMIG-A(17,16&18)		1	37.20	13.00		386.88		
	8.06	SMIG-A(13,14,15)		1	13.00	9.00		117.00		
	8.07	SLIG-(49-53)(17-21,33,34)		1	68.00	1.90		129.20		
	8.08	SLIG-(22-24)		1	34.40	4.70		161.68		
	8.09	SMIG-A-(4,5,6)		1	10.00	3.50		35.00		
							Total	1,898.16	952.94	18,08,832.59
									Total Construction cost	1,25,89,510.45
									GST 12%	15,10,741.25
									Design Report, Proof Checking & PMC Amount	2,51,790.21
									Tender Premium 5%	6,29,475.52
									Sub Total	1,49,81,517.44
									Miscellaneous & Round off	18,482.56
									Grand Total	1,50,00,000.00

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted is based on the PWD SR Bangalore Circle for year 2018-19
4. The provisions made in the estimate are necessary and essential.

For Support Engineering Consultants BANGALORE

M/s Sahitra Support Engineering Consultants Pvt. Ltd

Assistant Engineer,
Yalahanka Division, BBMP

Assistant Executive Engineer,
Yalahanka Division, BBMP

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ಯಲಹಂಕ ಉಪವಿಭಾಗ, ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Executive Engineer,
Yalahanka Division, BBMP